

3. Peak-Average Ratio

3.1 B7_5MHz

3.1.1 Test Result

Band: 7 / Bandwidth: 5MHz / NTVN						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	2502.5	25	0	5.31	<=13	Pass
	2535	25	0	5.36	<=13	Pass
	2567.5	25	0	5.35	<=13	Pass
16QAM	2502.5	25	0	6.09	<=13	Pass
	2535	25	0	6.11	<=13	Pass
	2567.5	25	0	6.10	<=13	Pass
64QAM	2502.5	25	0	6.66	<=13	Pass
	2535	25	0	6.70	<=13	Pass
	2567.5	25	0	6.65	<=13	Pass

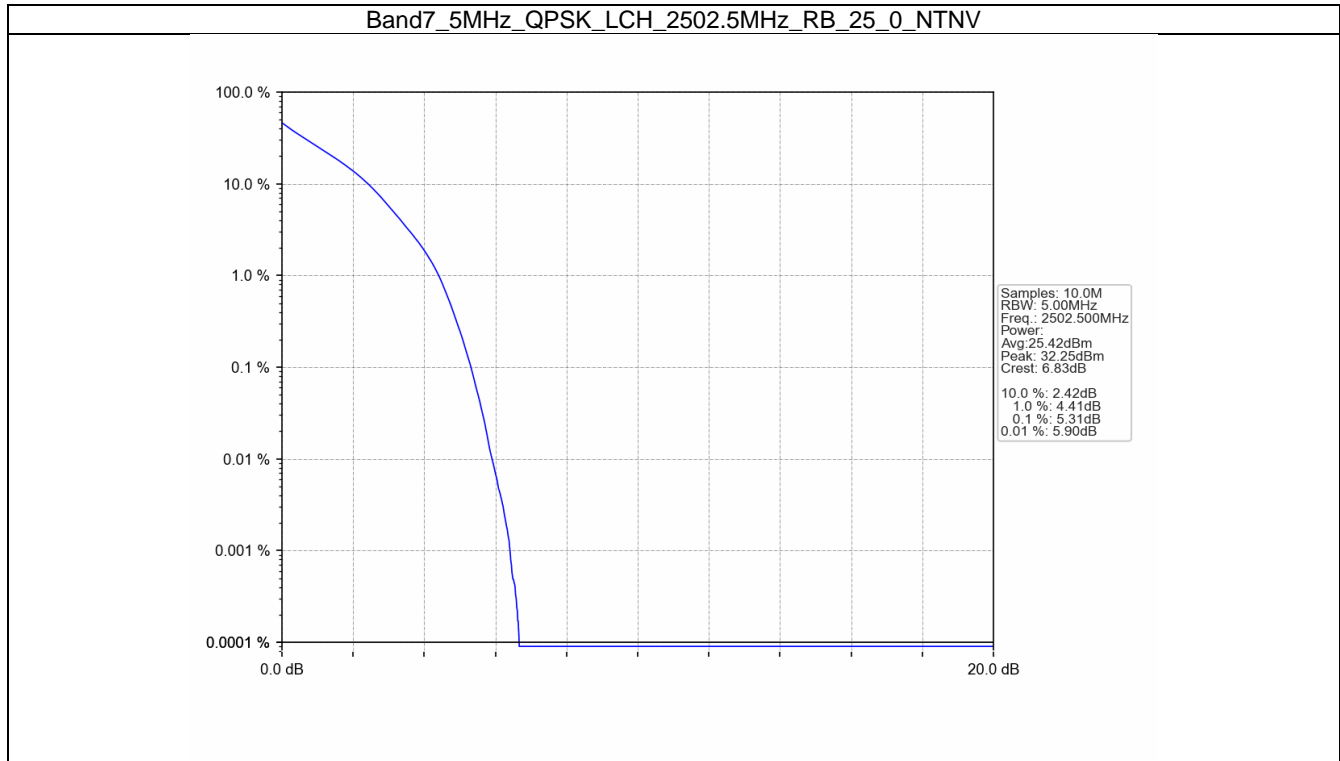


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3.1.2 Test Graph



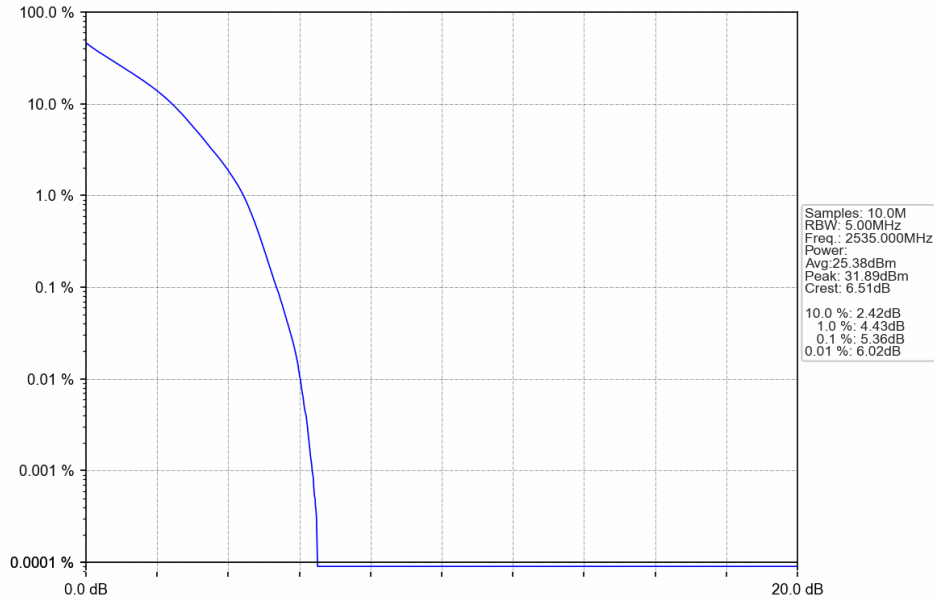
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Band7_5MHz_QPSK_MCH_2535MHz_RB_25_0_NTNV



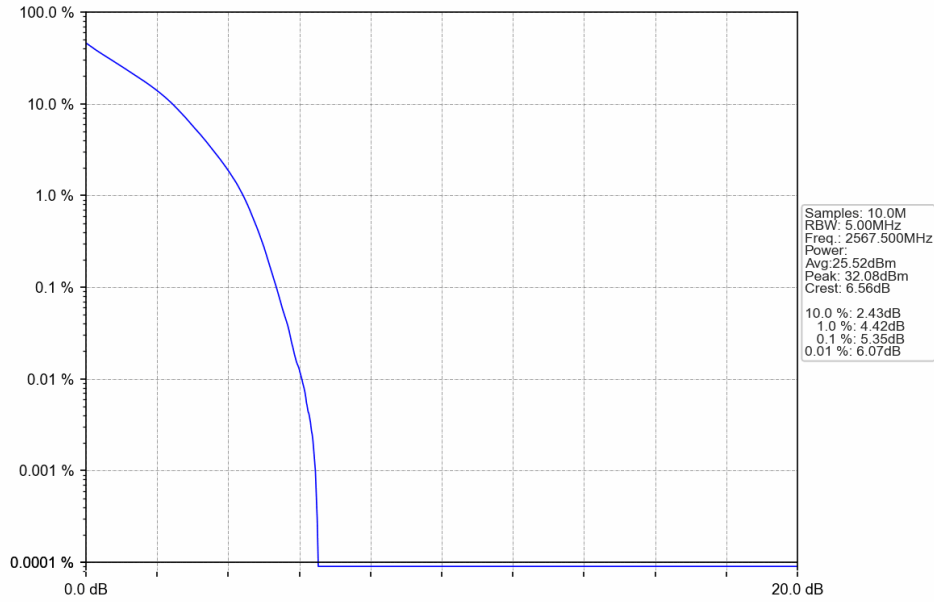
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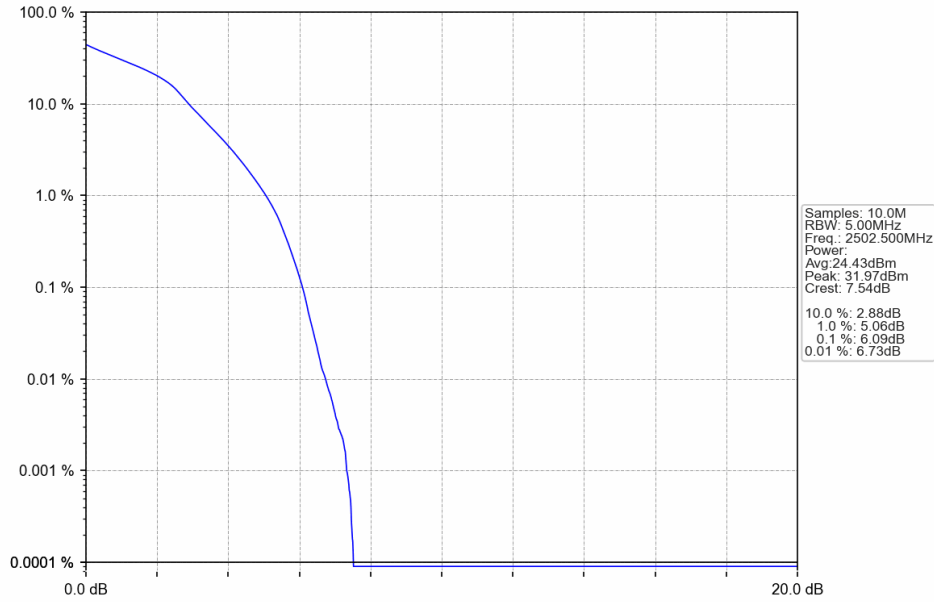
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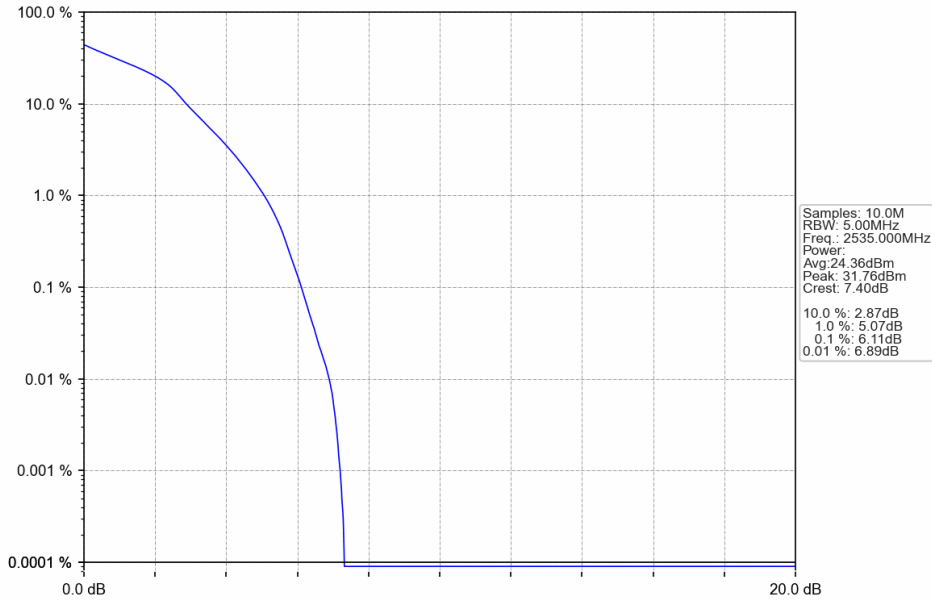
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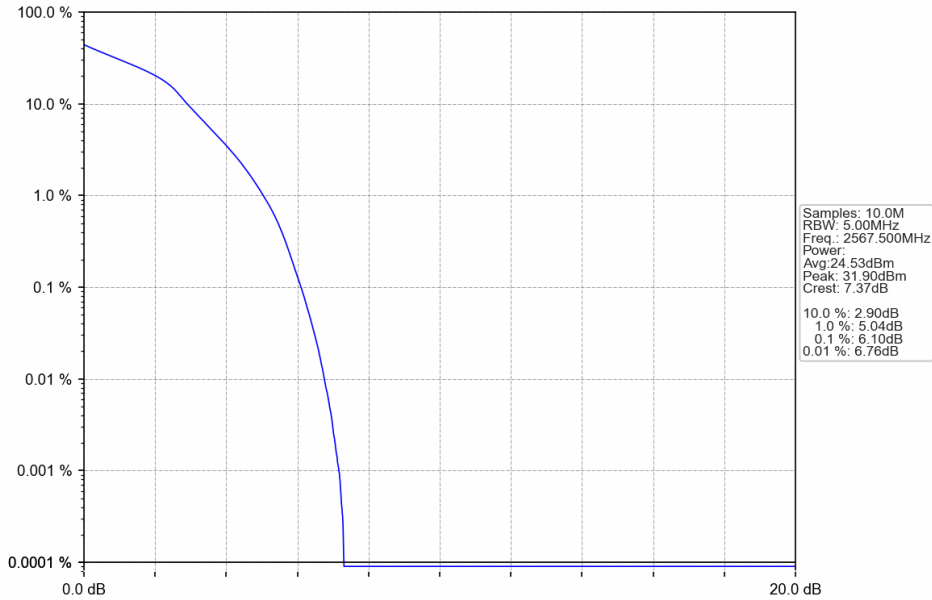
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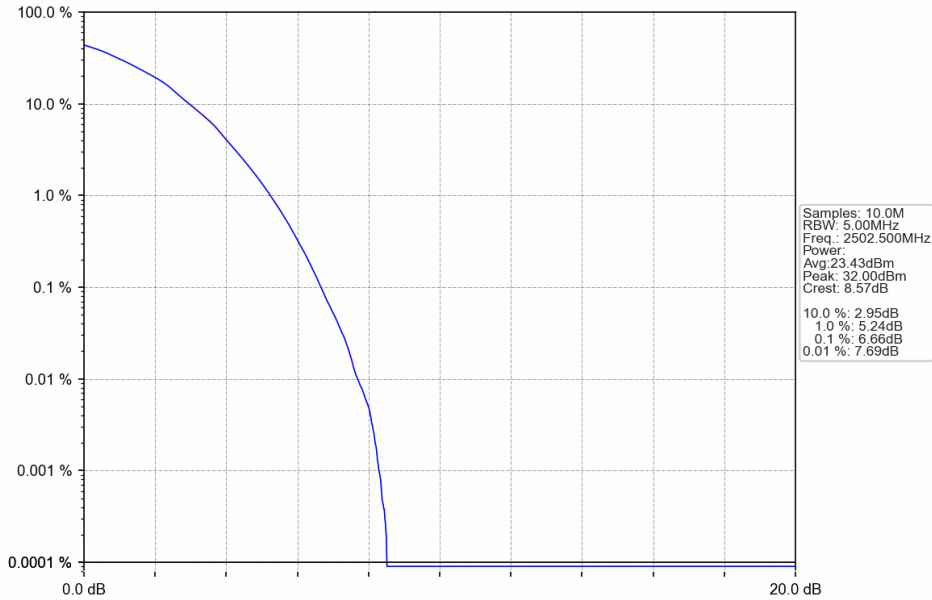
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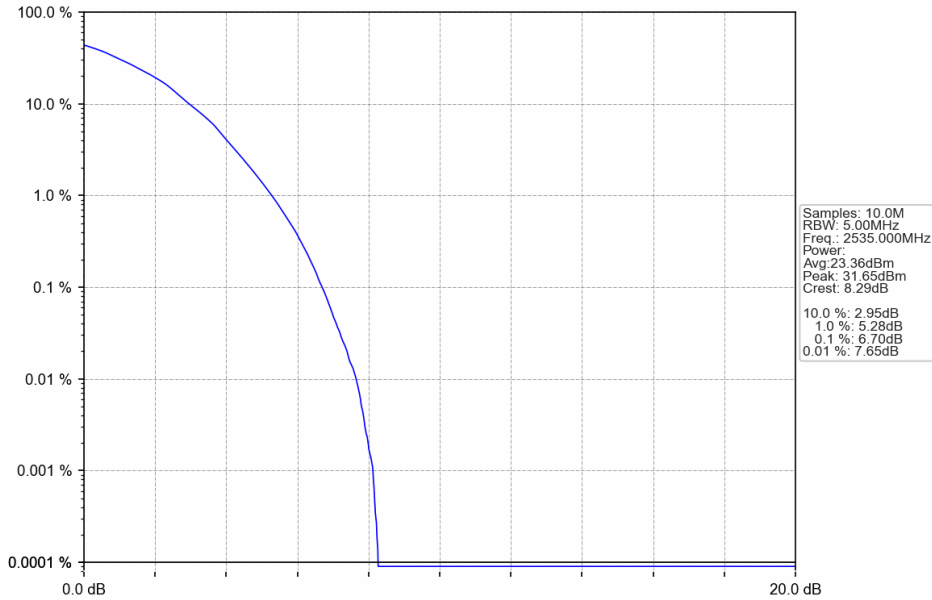
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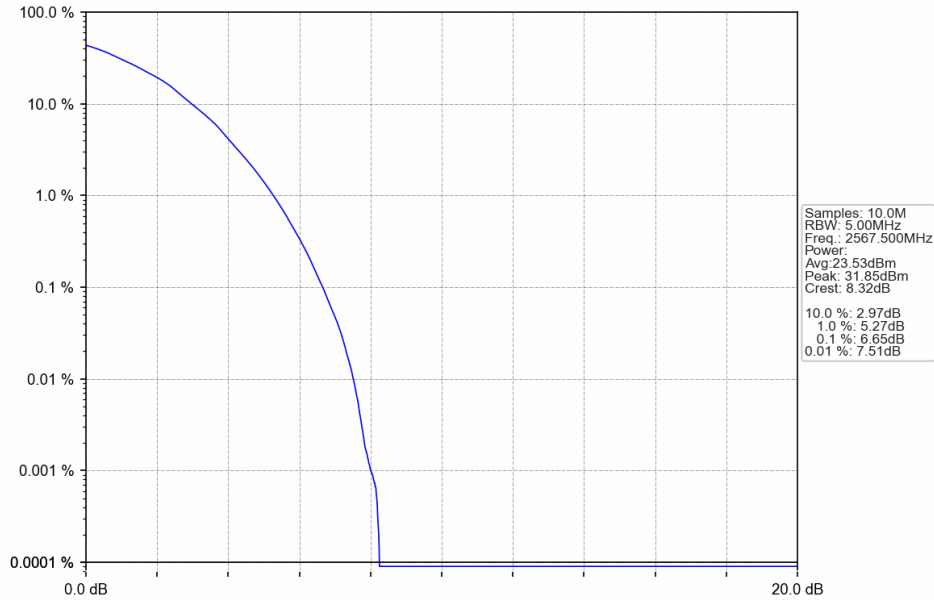
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3.2 B7_10MHz

3.2.1 Test Result

Band: 7 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	2505	50	0	5.26	<=13	Pass
	2535	50	0	5.29	<=13	Pass
	2565	50	0	5.23	<=13	Pass
16QAM	2505	50	0	6.05	<=13	Pass
	2535	50	0	6.08	<=13	Pass
	2565	50	0	6.04	<=13	Pass
64QAM	2505	50	0	6.63	<=13	Pass
	2535	50	0	6.69	<=13	Pass
	2565	50	0	6.62	<=13	Pass

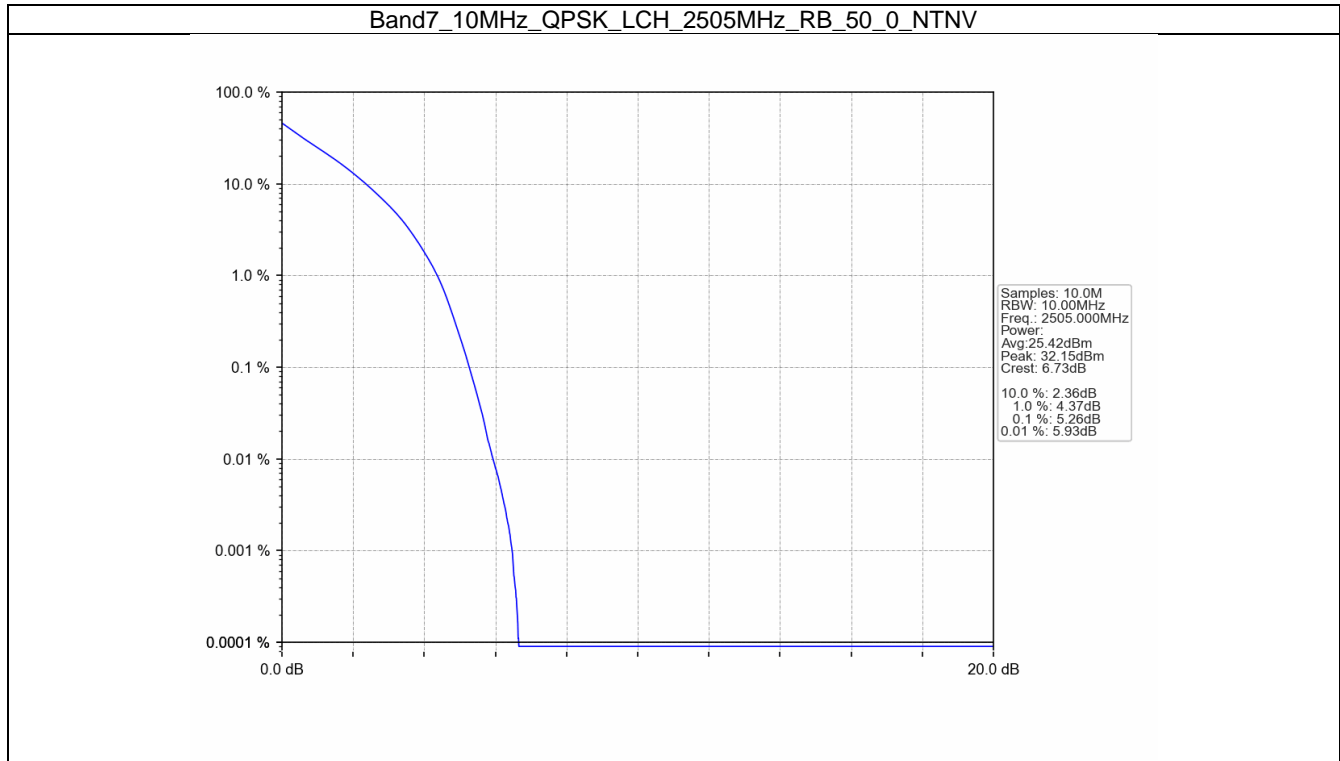


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3.2.2 Test Graph

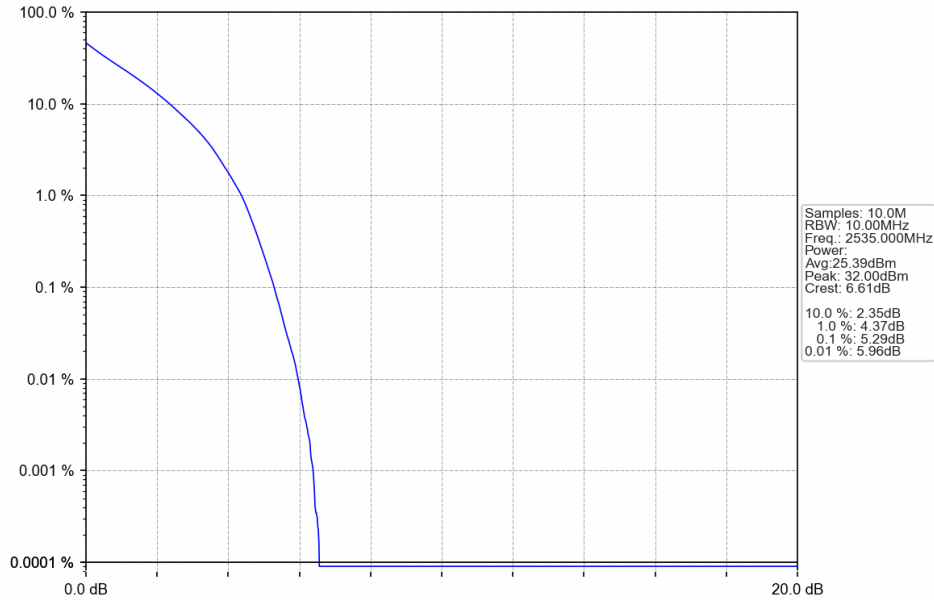


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Band7_10MHz_QPSK_MCH_2535MHz_RB_50_0_NTNV



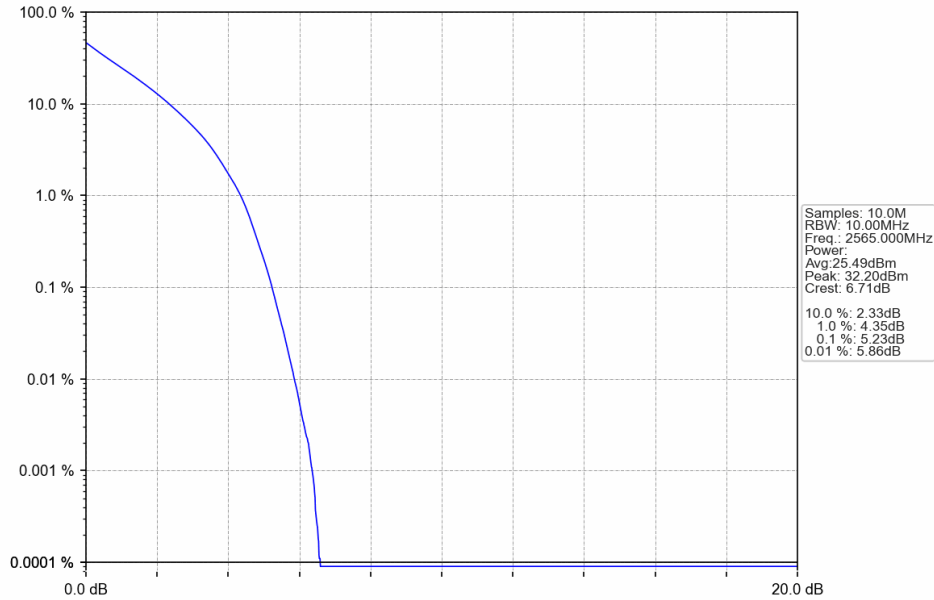
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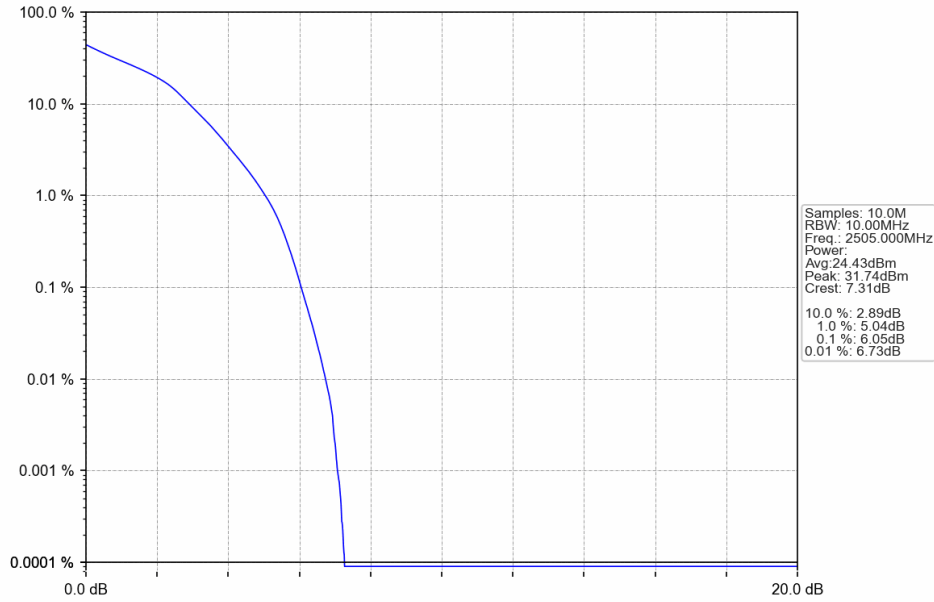
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Band7_10MHz_16QAM_LCH_2505MHz_RB_50_0_NTNV



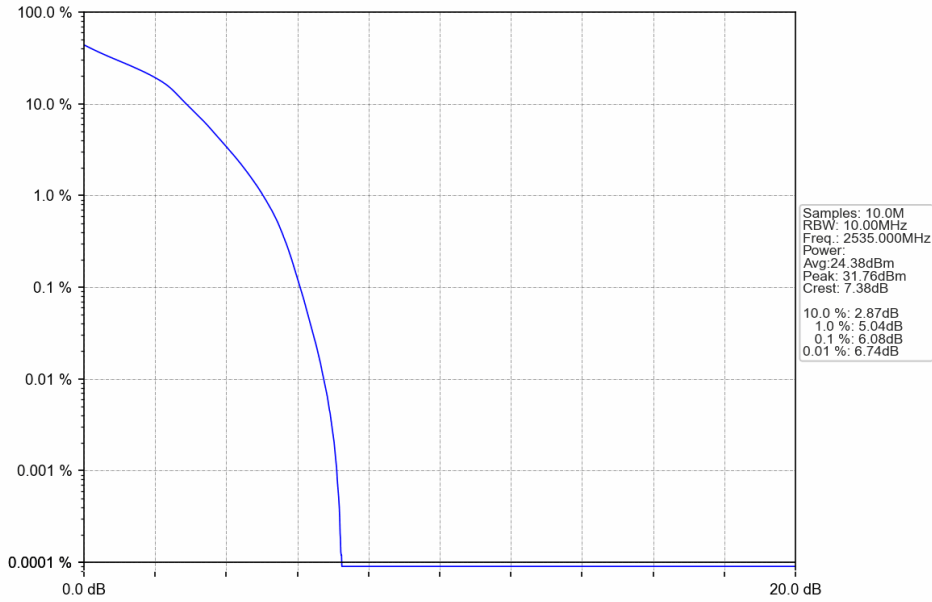
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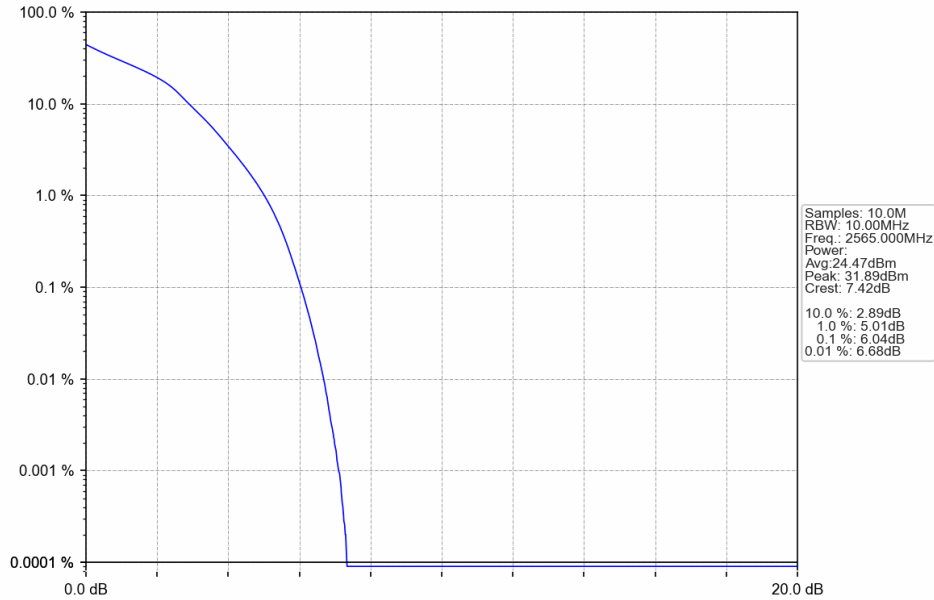
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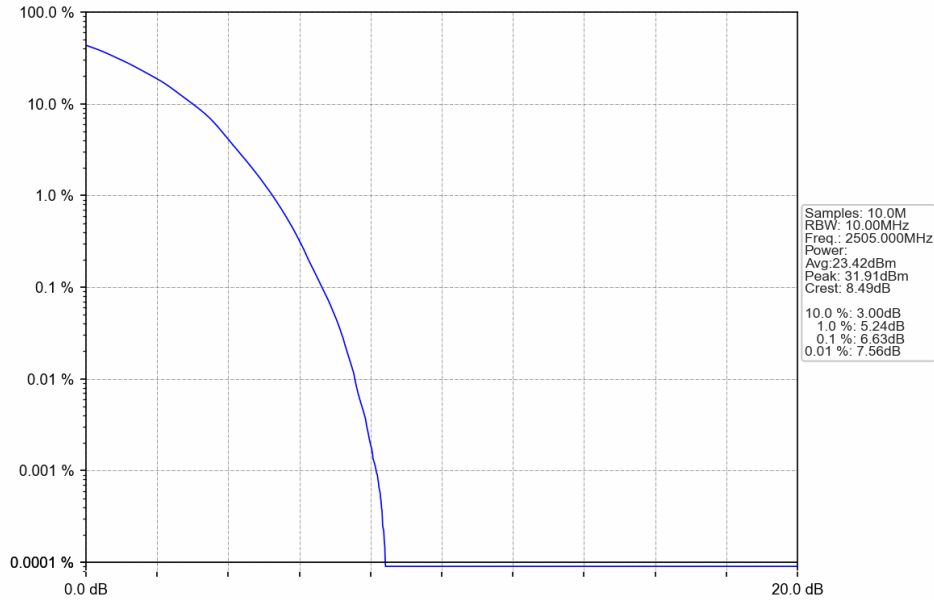
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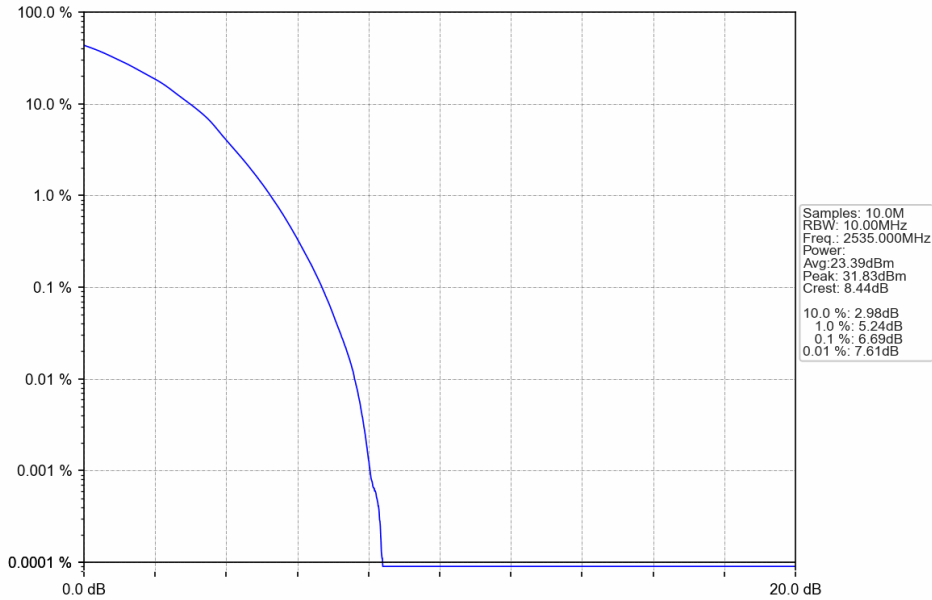
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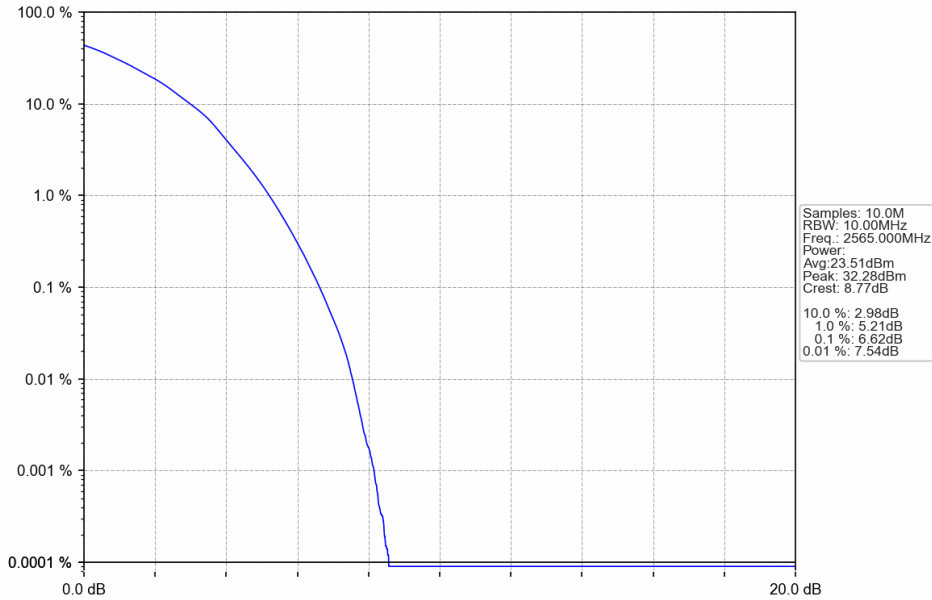
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3.3 B7_15MHz

3.3.1 Test Result

Band: 7 / Bandwidth: 15MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	2507.5	75	0	5.51	<=13	Pass
	2535	75	0	5.55	<=13	Pass
	2562.5	75	0	5.49	<=13	Pass
16QAM	2507.5	75	0	6.17	<=13	Pass
	2535	75	0	6.19	<=13	Pass
	2562.5	75	0	6.12	<=13	Pass
64QAM	2507.5	75	0	6.64	<=13	Pass
	2535	75	0	6.70	<=13	Pass
	2562.5	75	0	6.68	<=13	Pass

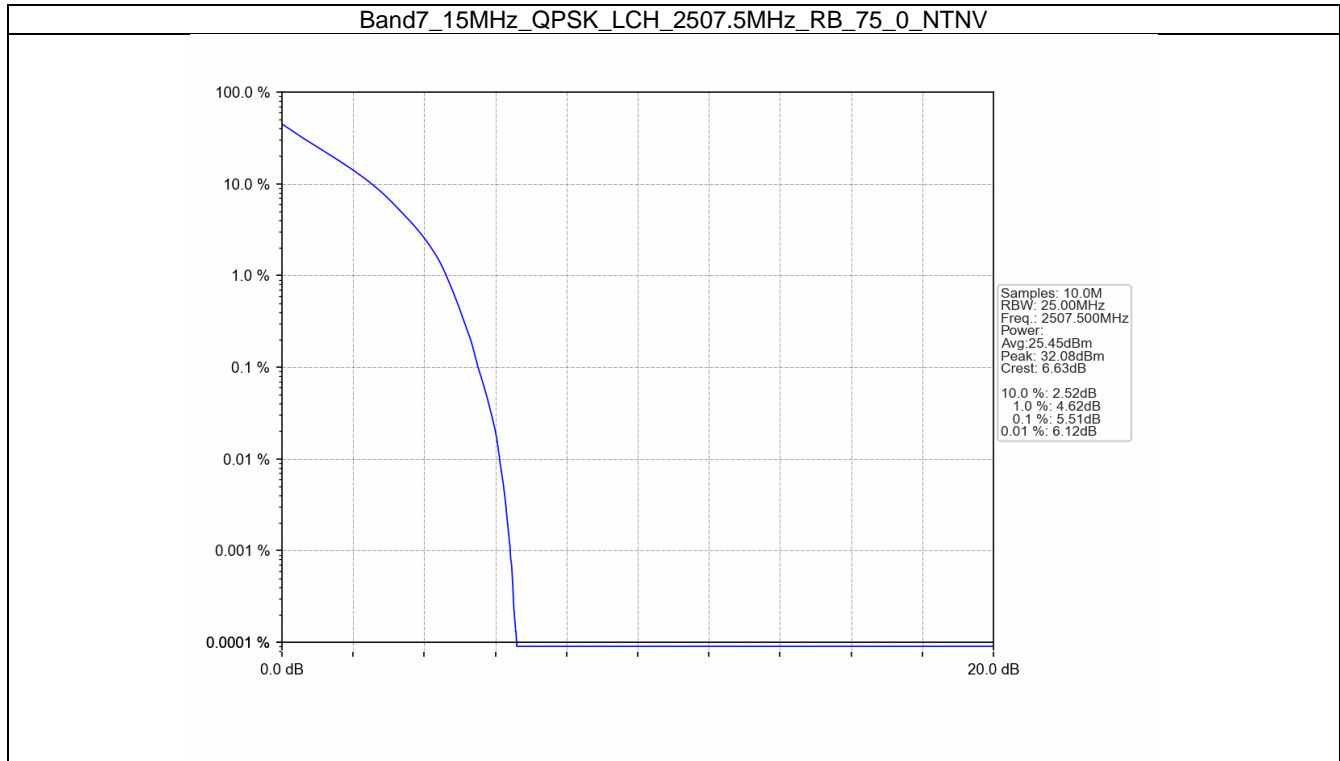


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3.3.2 Test Graph

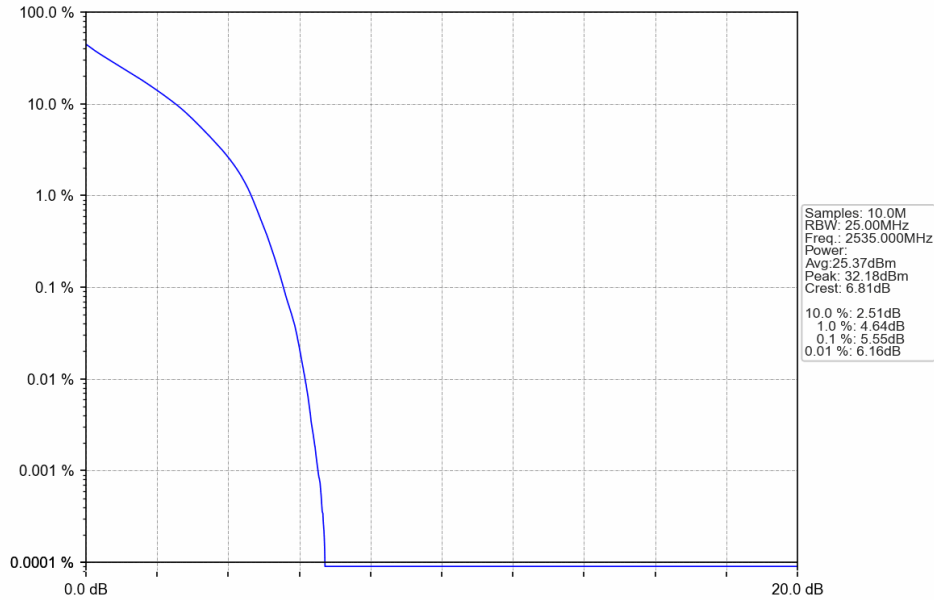


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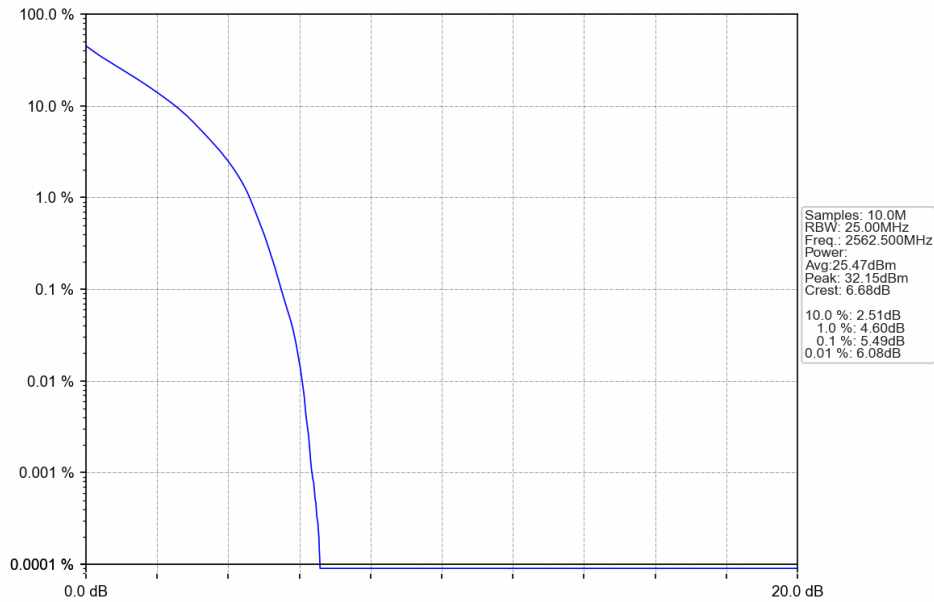


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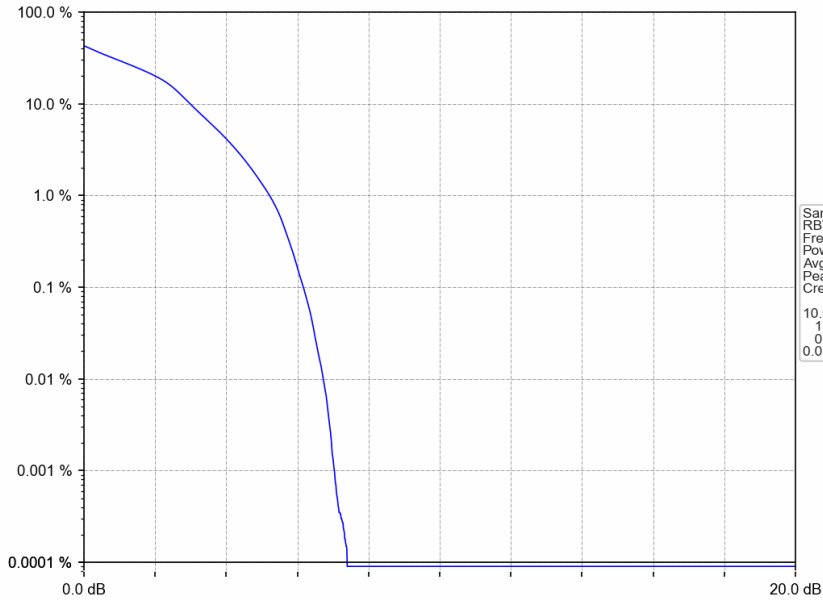
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Samples: 10.0M
 RBW: 25.00MHz
 Freq.: 2507.500MHz
 Power:
 Avg: 24.47dBm
 Peak: 31.99dBm
 Crest: 7.52dB

10.0 %: 2.98dB
 1.0 %: 5.22dB
 0.1 %: 6.17dB
 0.01 %: 6.73dB



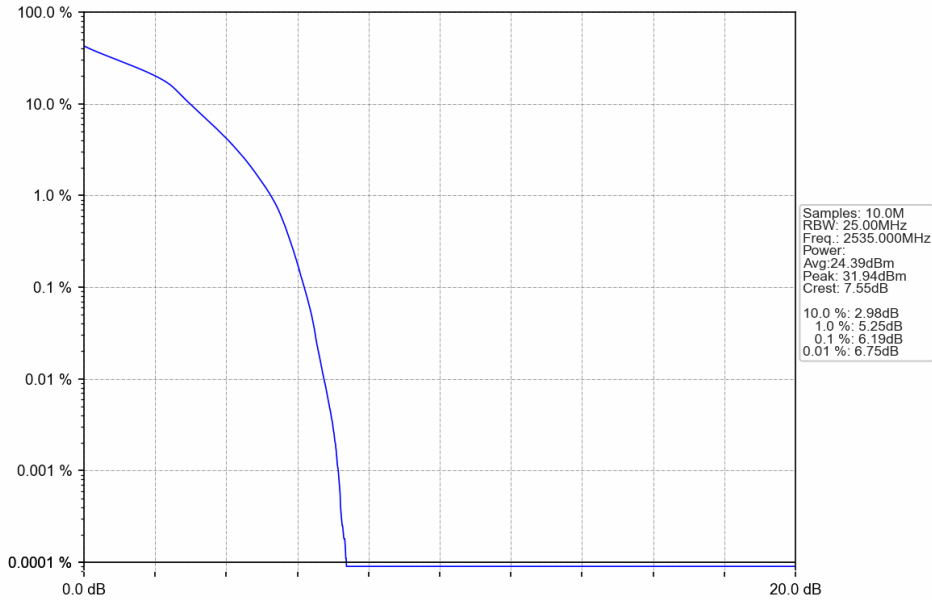
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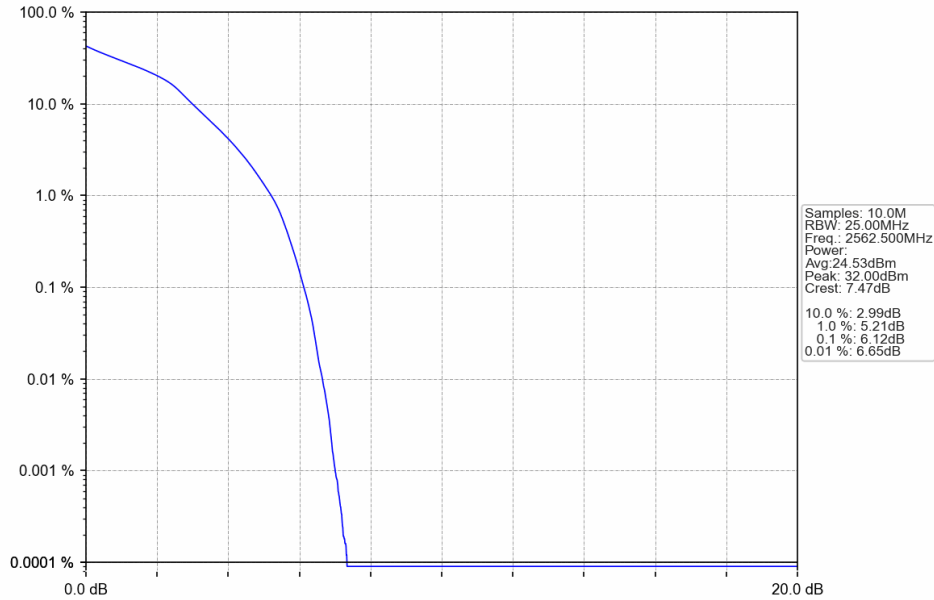
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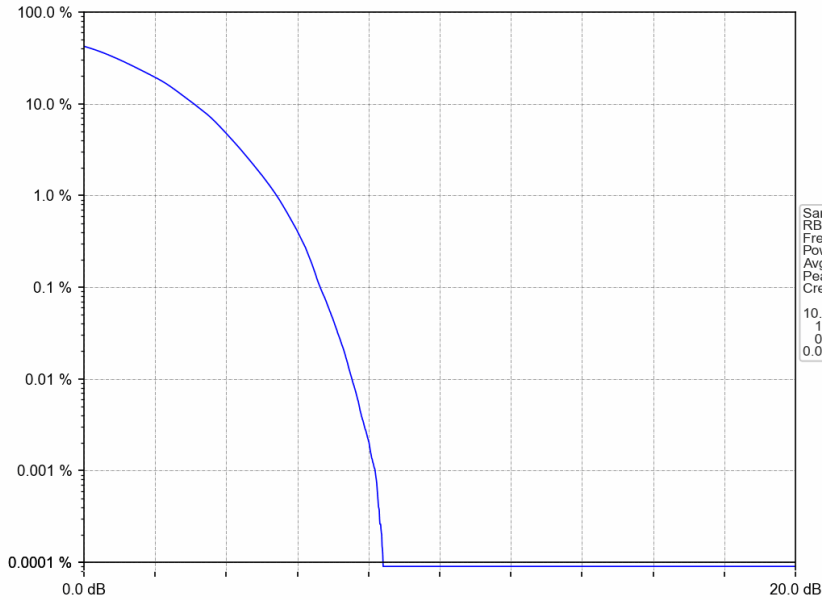
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Band7_15MHz_64QAM_LCH_2507.5MHz_RB_75_0_NTNV



Samples: 10.0M
 RBW: 25.00MHz
 Freq.: 2507.500MHz
 Power:
 Avg: 23.50dBm
 Peak: 32.00dBm
 Crest: 8.50dB

10.0 %: 3.09dB
 1.0 %: 5.41dB
 0.1 %: 6.64dB
 0.01 %: 7.53dB



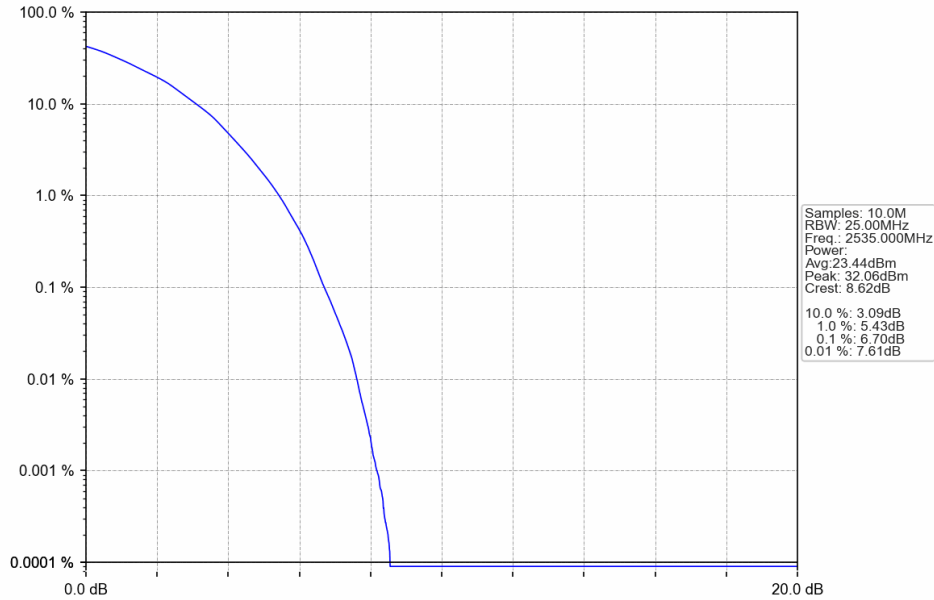
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Band7_15MHz_64QAM_MCH_2535MHz_RB_75_0_NTNV



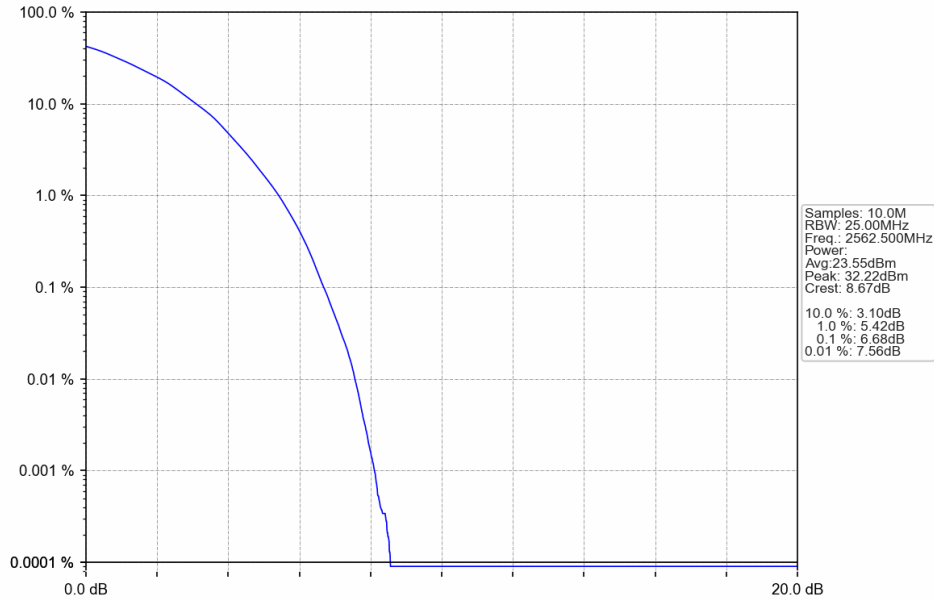
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Band7_15MHz_64QAM_HCH_2562.5MHz_RB_75_0_NTNV



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3.4 B7_20MHz

3.4.1 Test Result

Band: 7 / Bandwidth: 20MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	2510	100	0	5.21	<=13	Pass
	2535	100	0	5.28	<=13	Pass
	2560	100	0	5.22	<=13	Pass
16QAM	2510	100	0	6.04	<=13	Pass
	2535	100	0	6.05	<=13	Pass
	2560	100	0	6.03	<=13	Pass
64QAM	2510	100	0	6.67	<=13	Pass
	2535	100	0	6.67	<=13	Pass
	2560	100	0	6.63	<=13	Pass

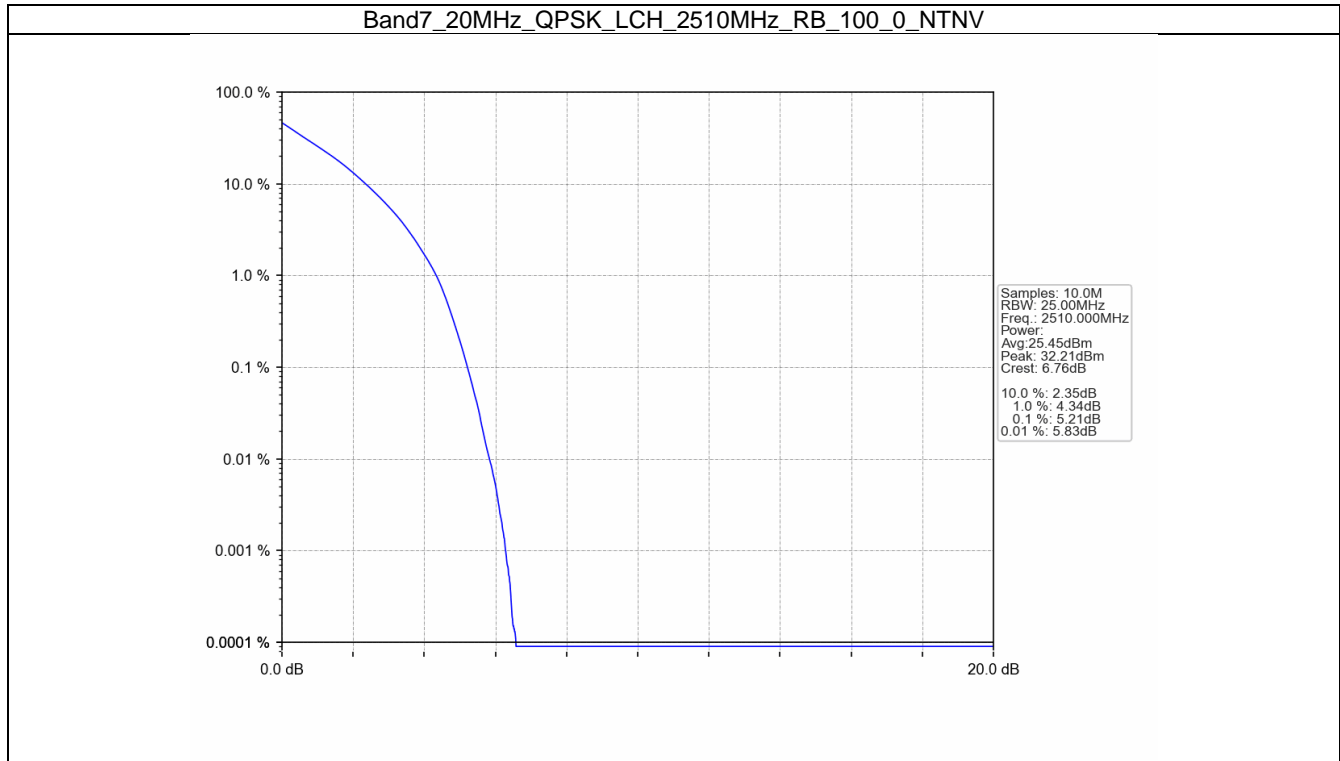


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3.4.2 Test Graph



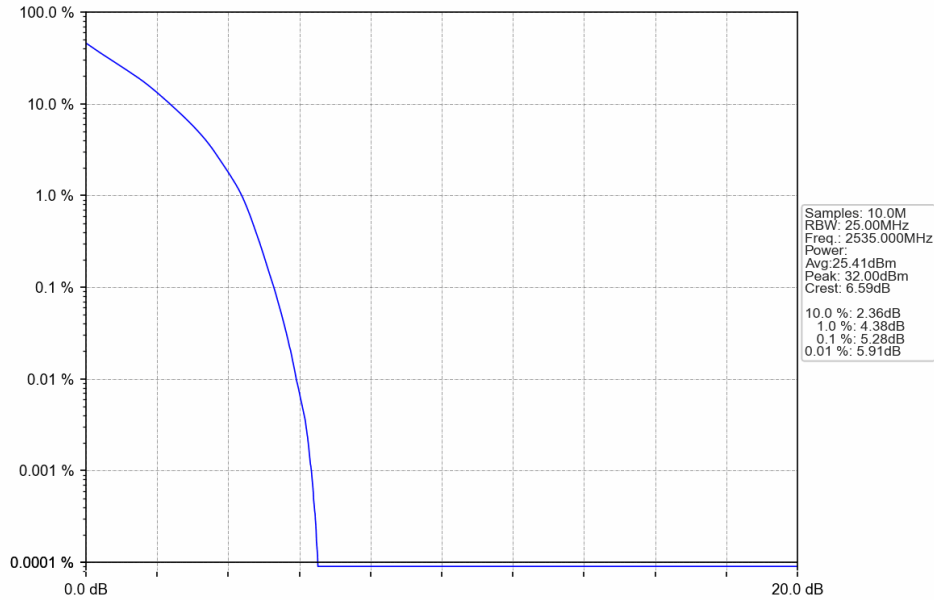
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Band7_20MHz_QPSK_MCH_2535MHz_RB_100_0_NTNV



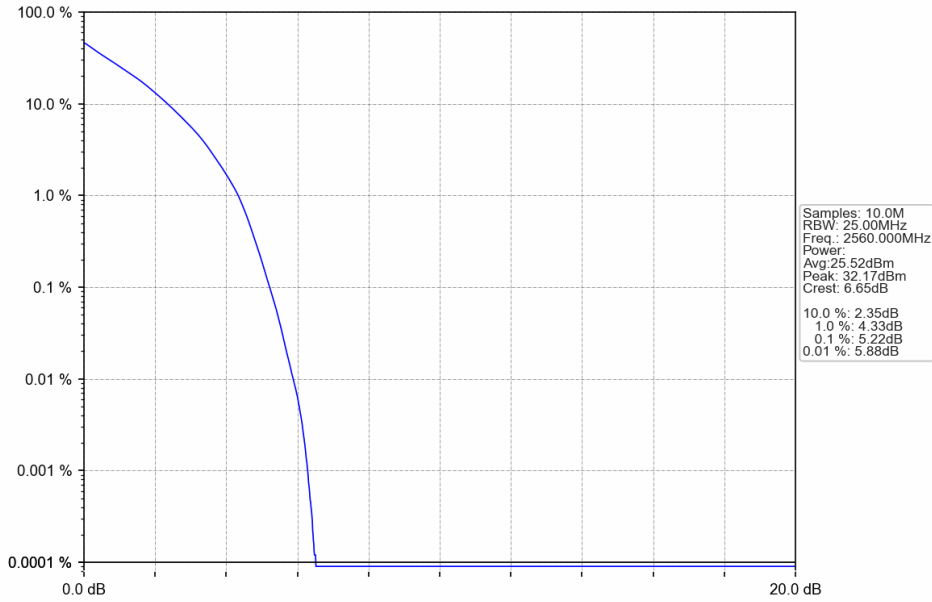
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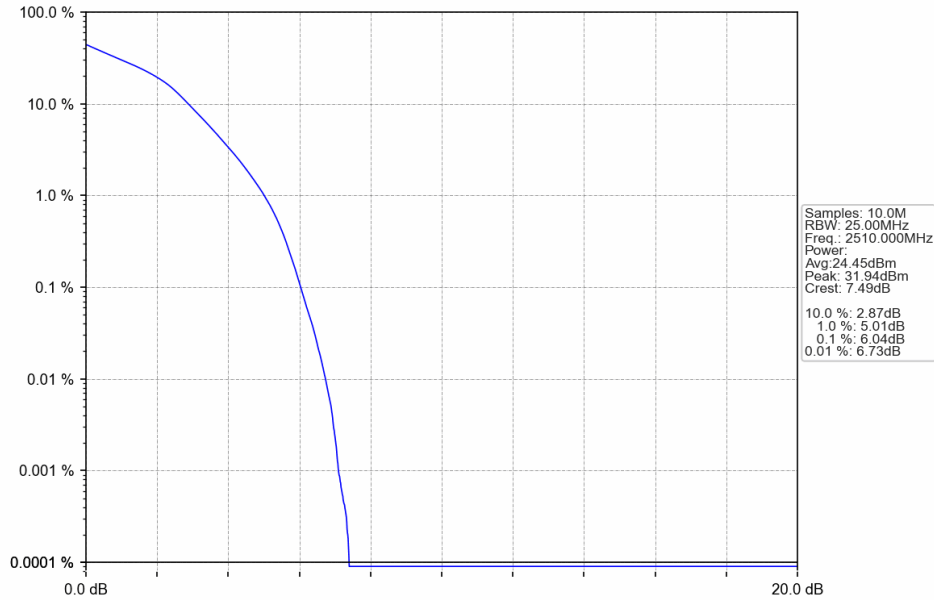
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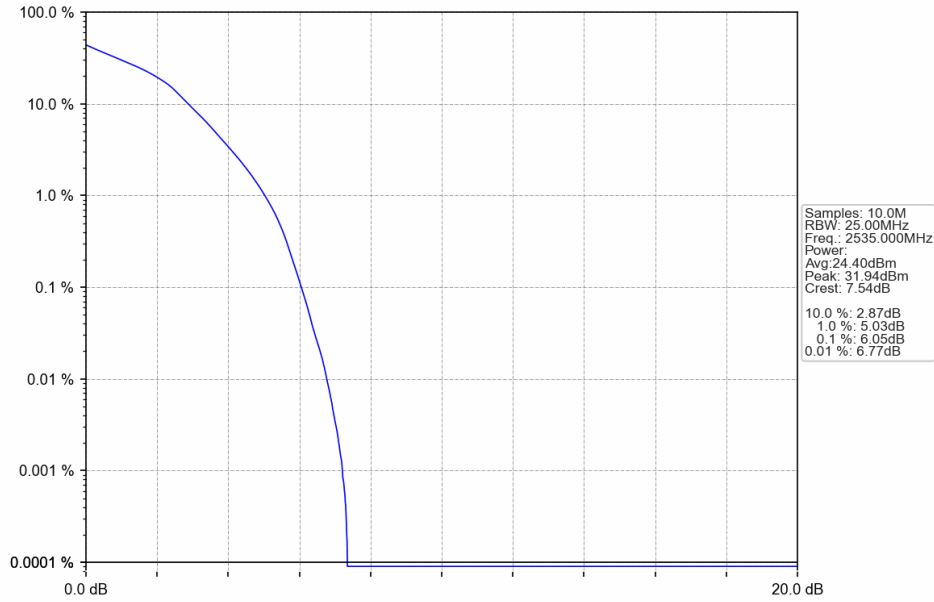
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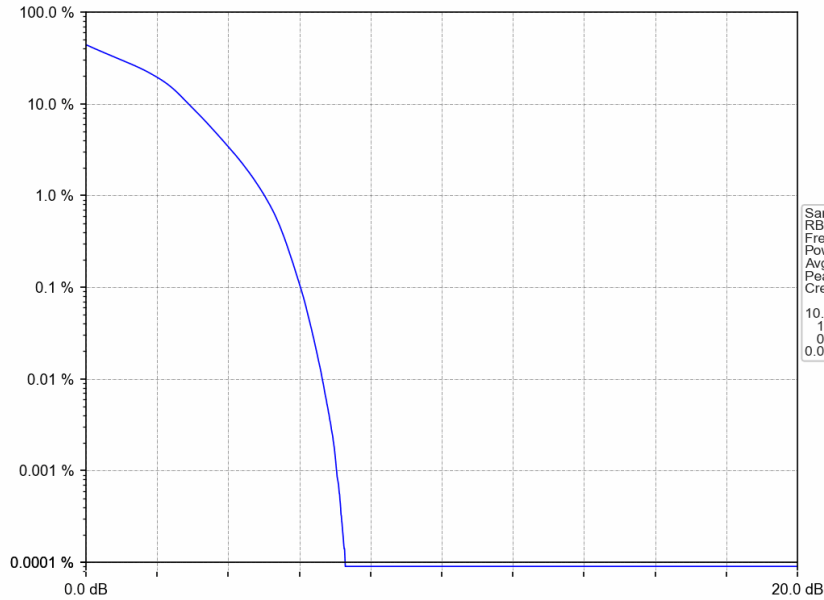
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Band7_20MHz_16QAM_HCH_2560MHz_RB_100_0_NTNV



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 Freq.: 2560.000MHz
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10.0 %: 2.88dB
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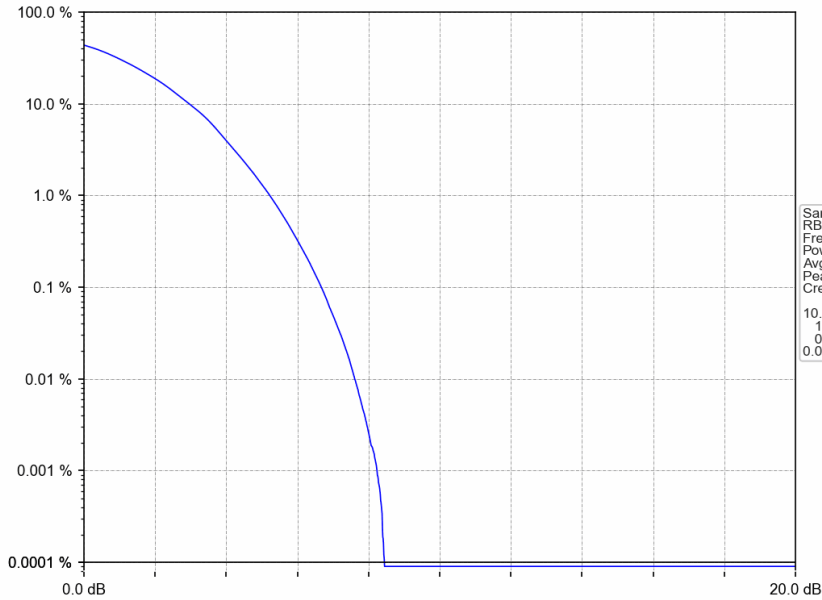
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 Crest: 8.61dB



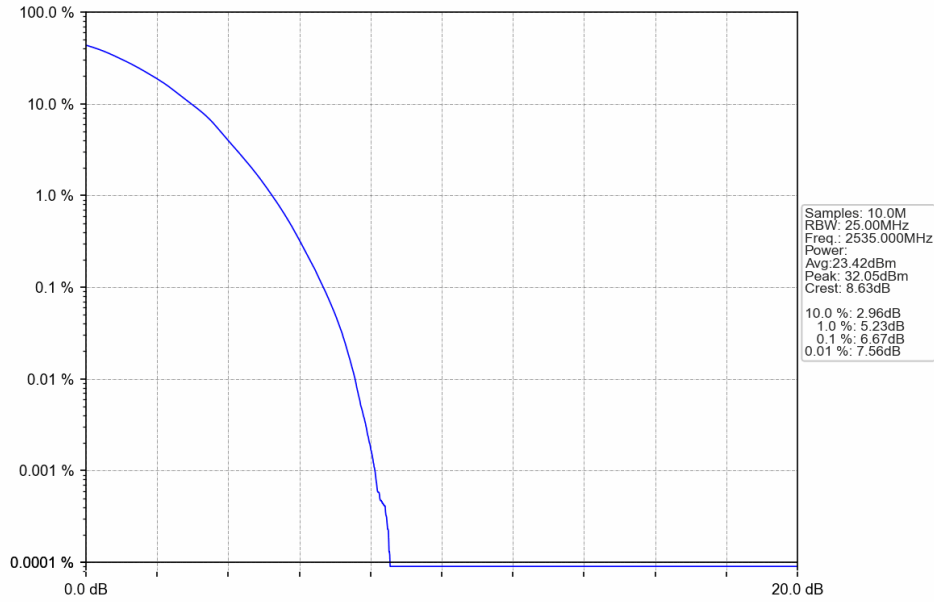
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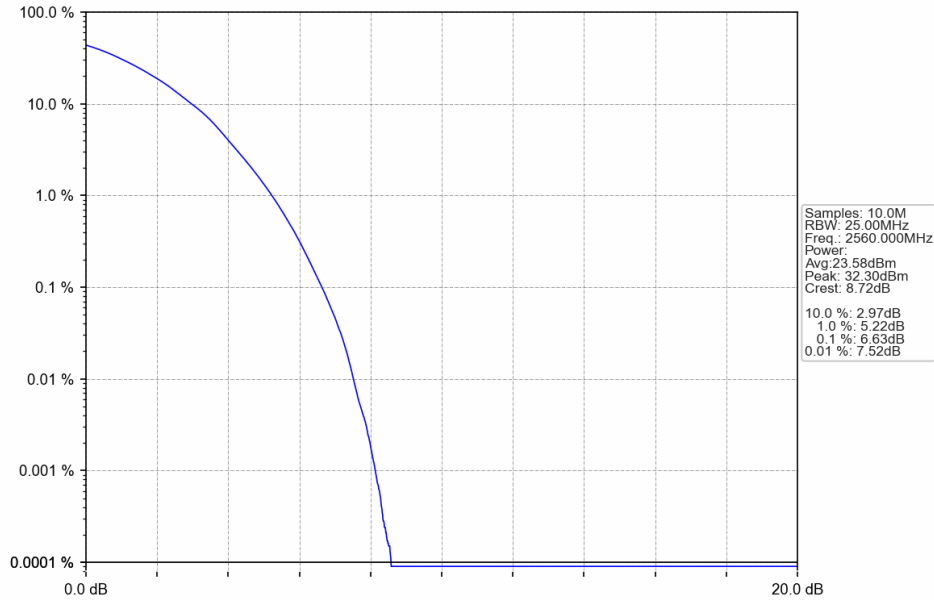
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4. Spurious Emission & Band Edges

4.1 B7_5MHz

4.1.1 Test Result

Band: 7 / Bandwidth: 5MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	2502.5	1	0	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
	2535	1	0	Refer To Test Graph		Pass
		1	0	Refer To Test Graph		Pass
	2567.5	1	24	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
16QAM	2502.5	1	0	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
	2535	1	0	Refer To Test Graph		Pass
		1	0	Refer To Test Graph		Pass
	2567.5	1	24	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
64QAM	2502.5	1	0	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
	2535	1	0	Refer To Test Graph		Pass
		1	0	Refer To Test Graph		Pass
	2567.5	1	24	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass

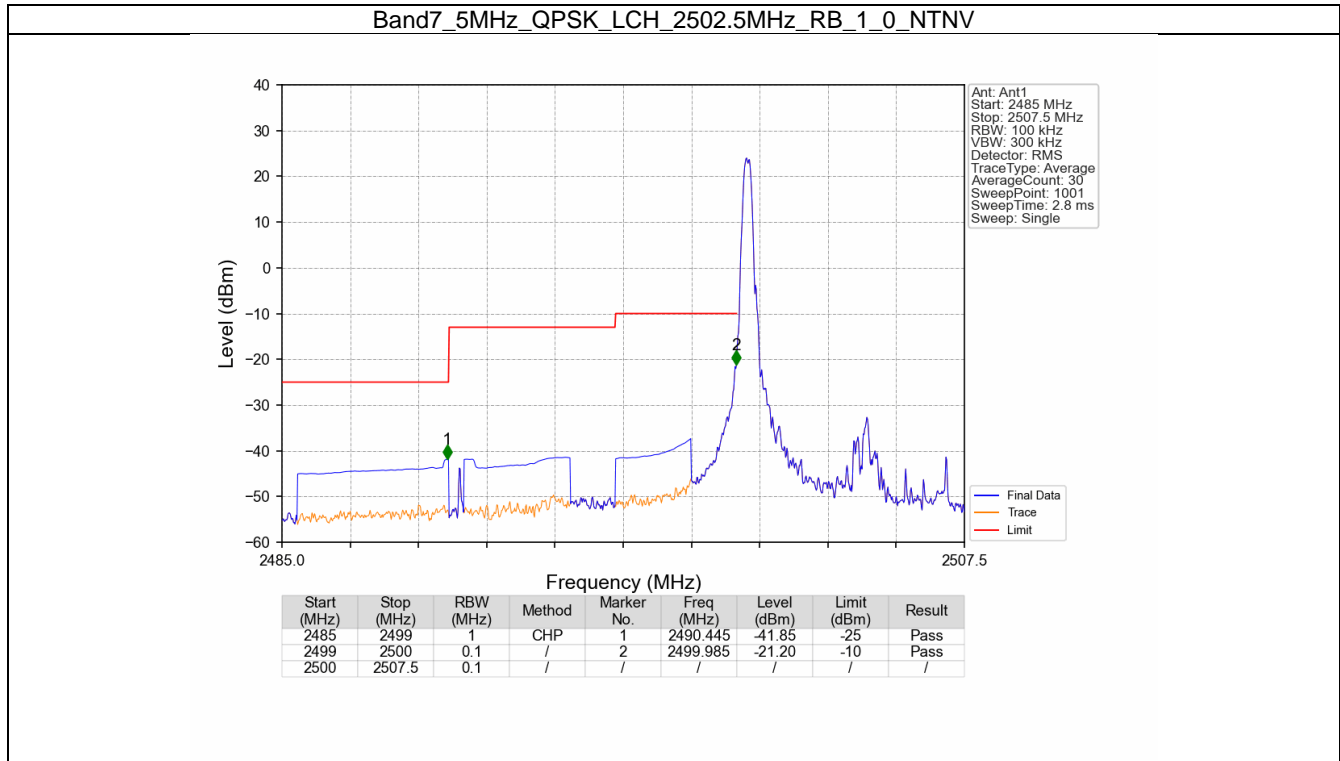


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4.1.2 Test Graph

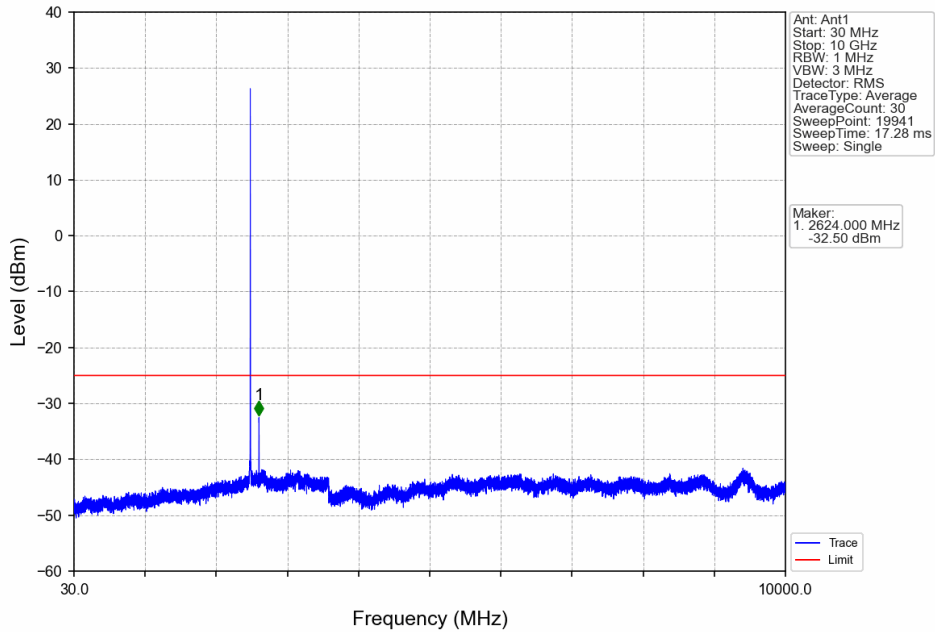


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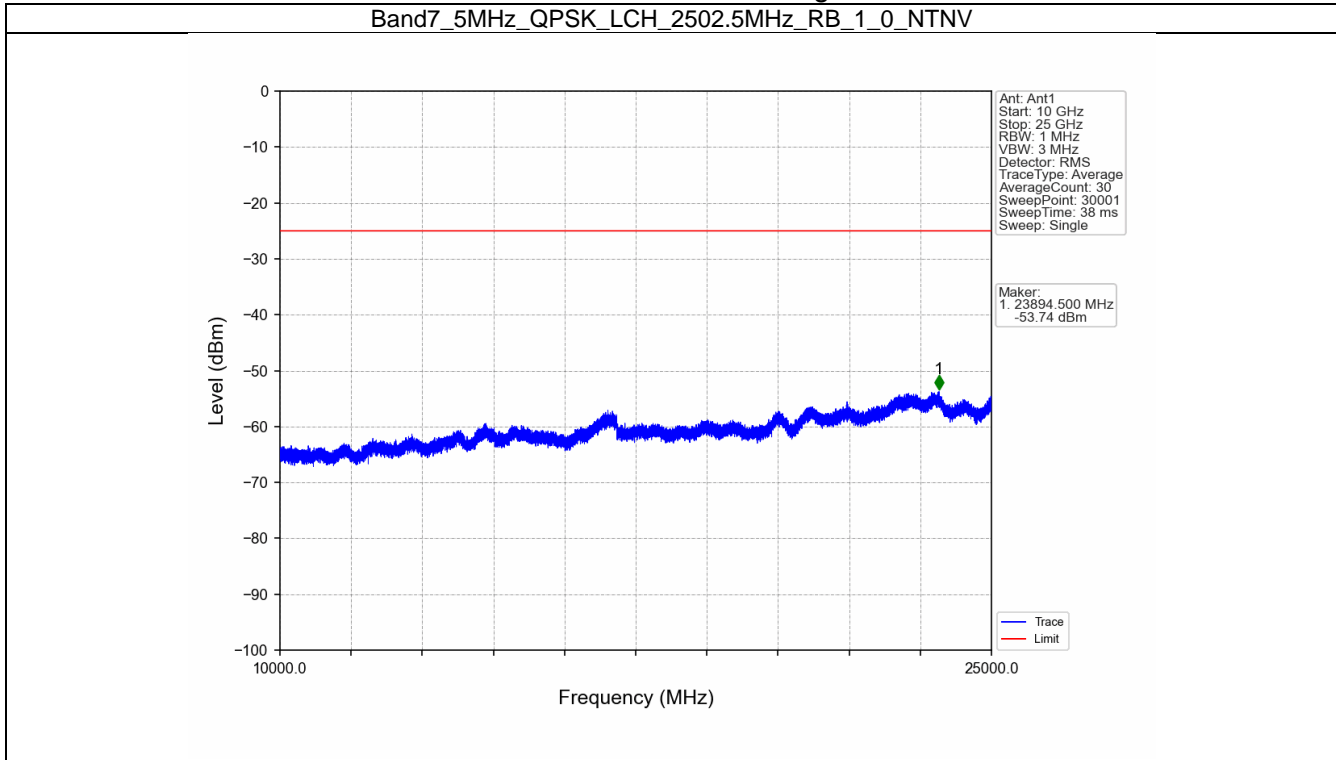
Band7_5MHz_QPSK_LCH_2502.5MHz_RB_1_0_NTNV



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Band7_5MHz_QPSK_LCH_2502.5MHz_RB_1_0_NTNV



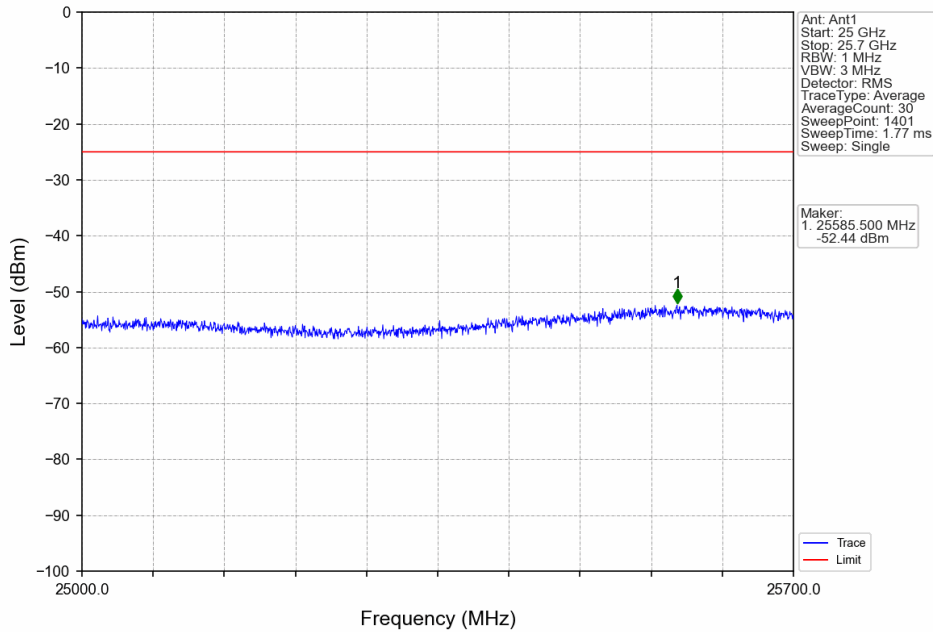
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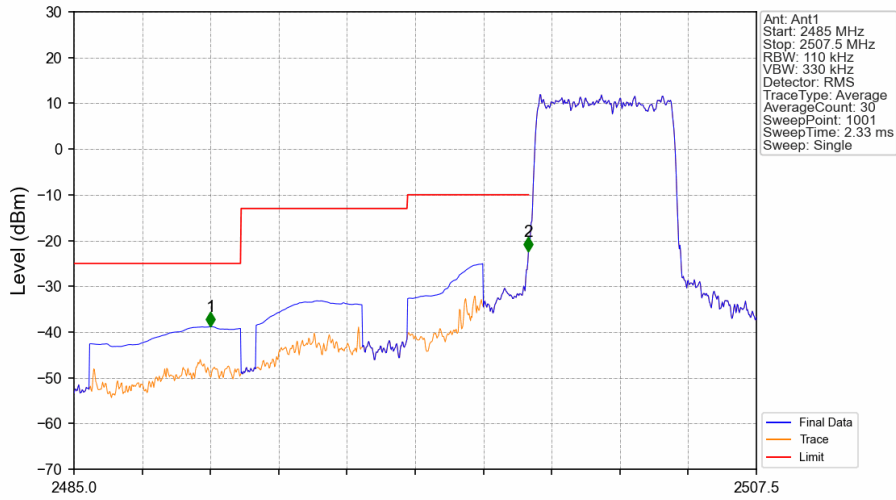


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Band7_5MHz_QPSK_LCH_2502.5MHz_RB_25_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2485	2499	1	CHP	1	2489.500	-38.85	-25	Pass
2499	2500	0.11	/	2	2499.985	-22.38	-10	Pass
2500	2507.5	0.11	/	/	/	/	/	/



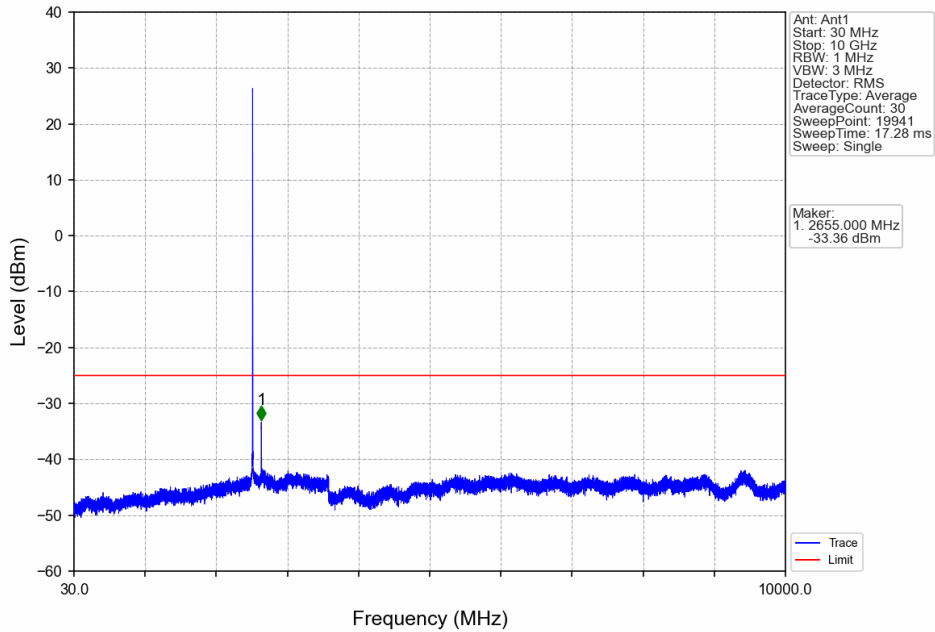
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Band7_5MHz_QPSK_MCH_2535MHz_RB_1_0_NTNV

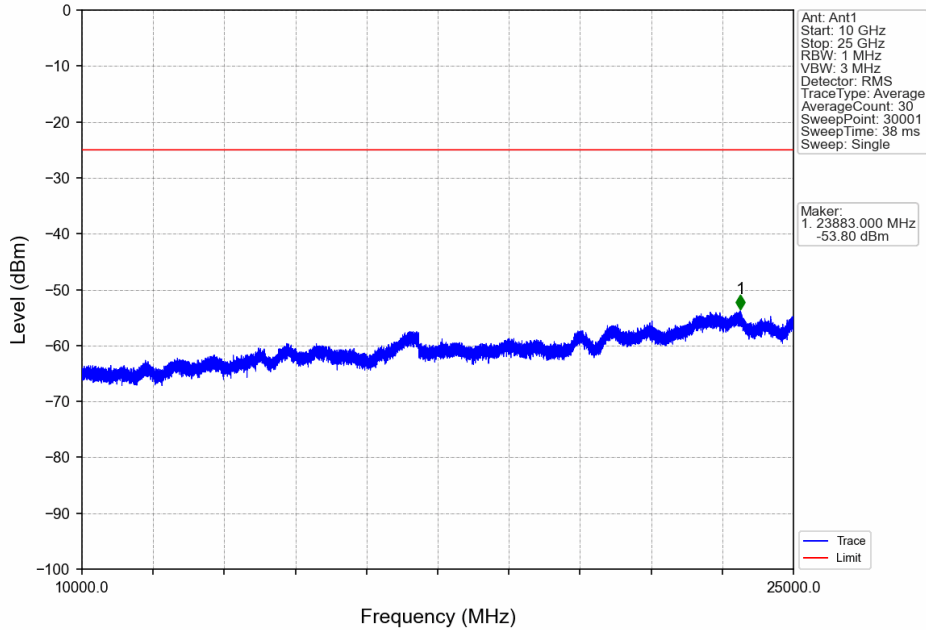


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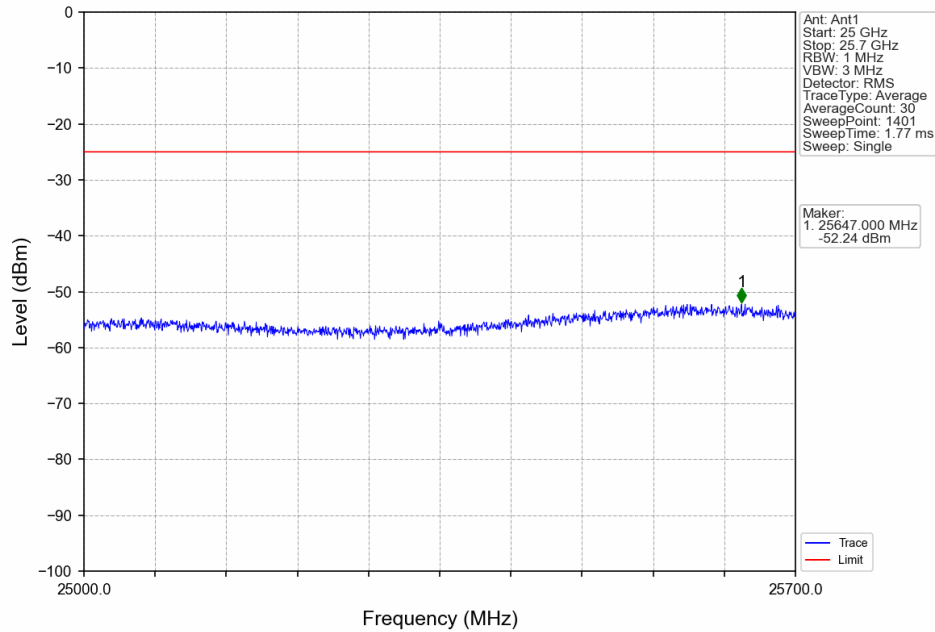
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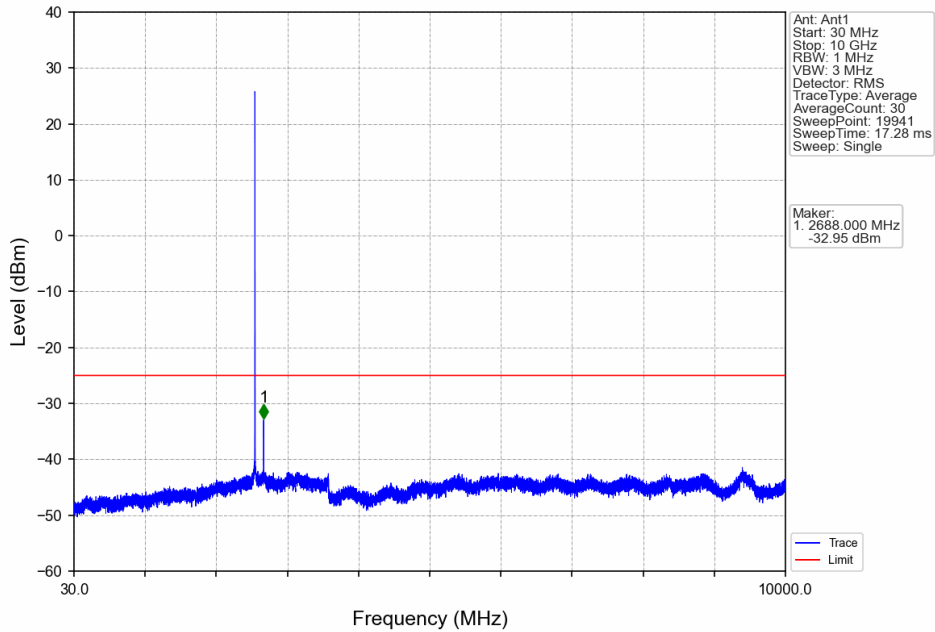
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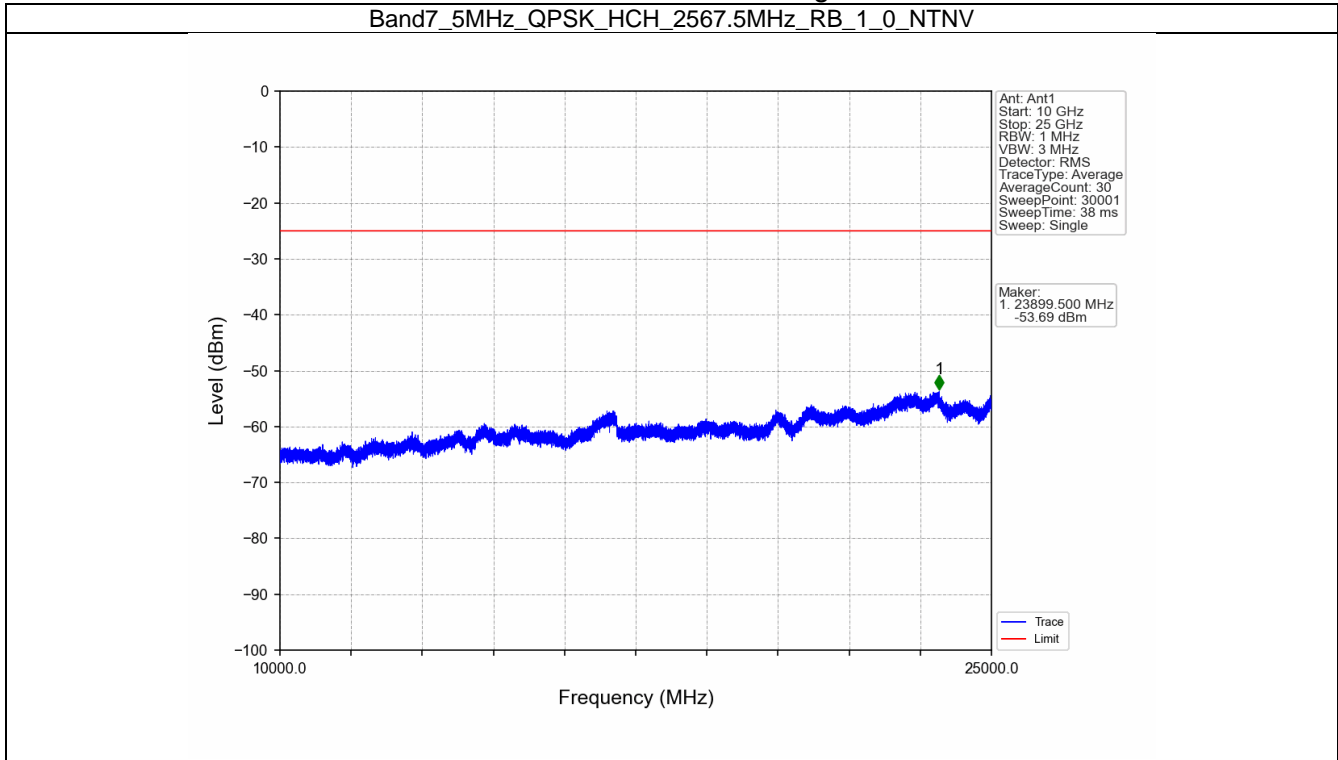
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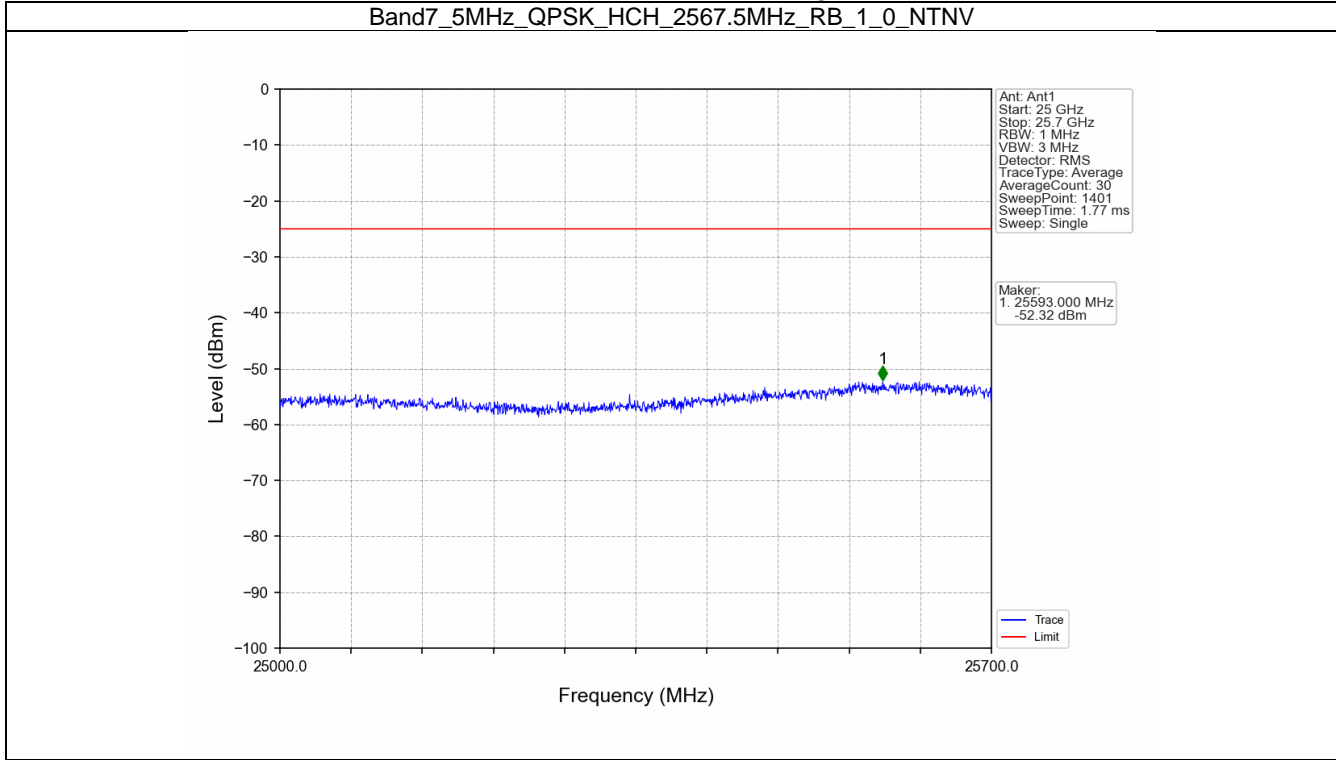
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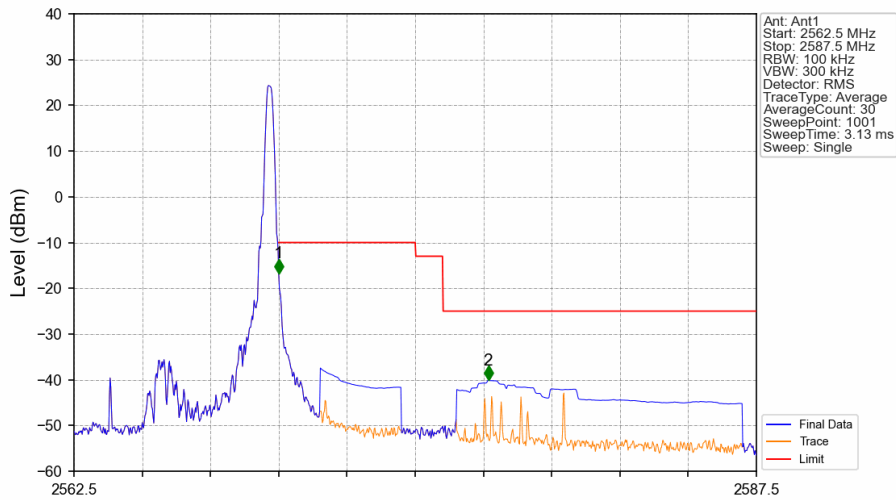


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Band7_5MHz_QPSK_HCH_2567.5MHz_RB_1_24_NTNV



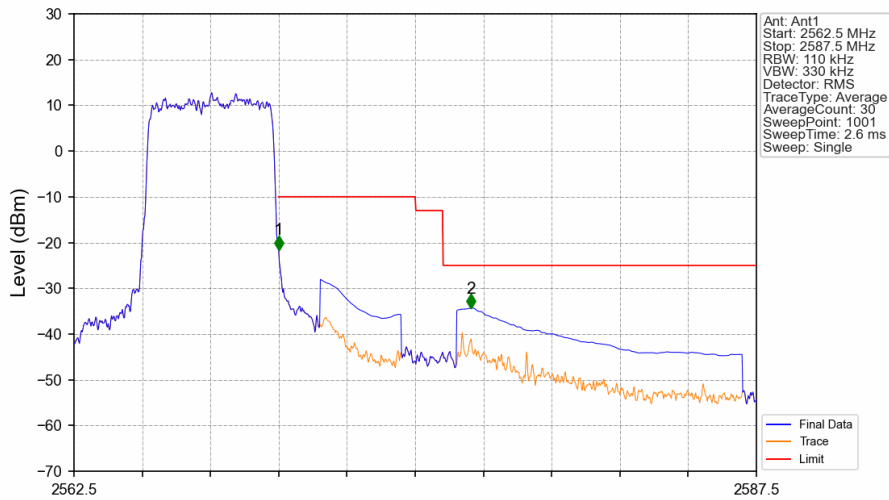
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2562.5	2570	0.1	/	/	/	/	/	/
2570	2571	0.1	/	1	2570.000	-16.72	-10	Pass
2571	2587.5	1	CHP	2	2577.675	-40.13	-25	Pass



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Band7_5MHz_QPSK_HCH_2567.5MHz_RB_25_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2562.5	2570	0.11	/	/	/	/	/	/
2570	2571	0.11	/	1	2570.000	-21.61	-10	Pass
2571	2587.5	1	CHP	2	2577.050	-34.33	-25	Pass

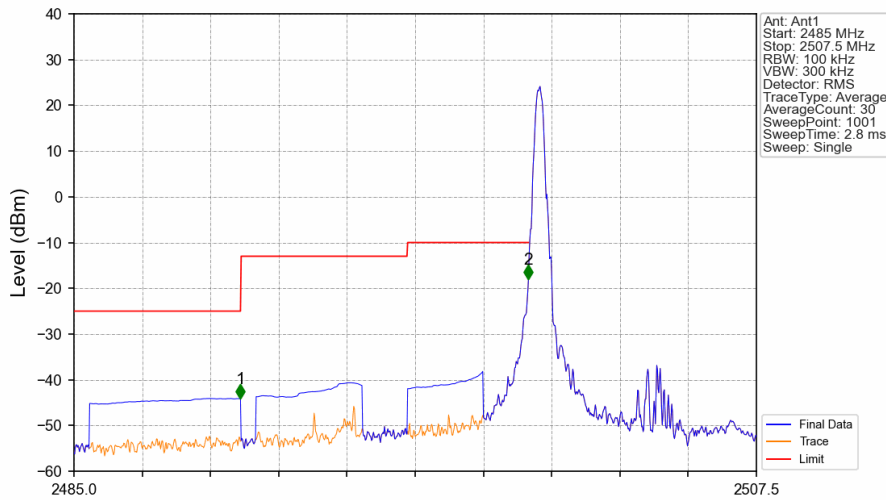


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Band7_5MHz_16QAM_LCH_2502.5MHz_RB_1_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2485	2499	1	CHP	1	2490.490	-44.09	-25	Pass
2499	2500	0.1	/	2	2499.985	-18.00	-10	Pass
2500	2507.5	0.1	/	/	/	/	/	/

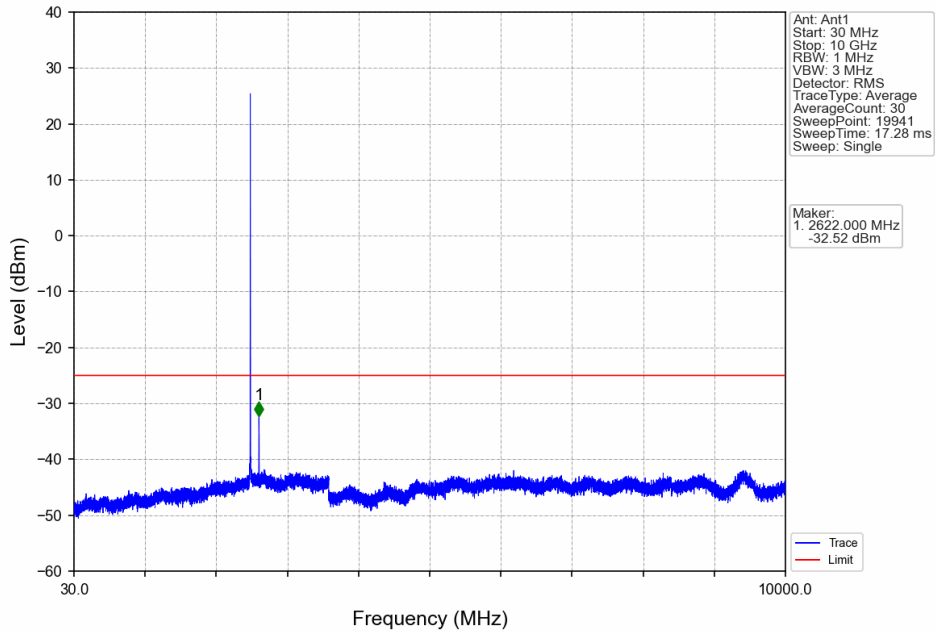


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Band7_5MHz_16QAM_LCH_2502.5MHz_RB_1_0_NTNV

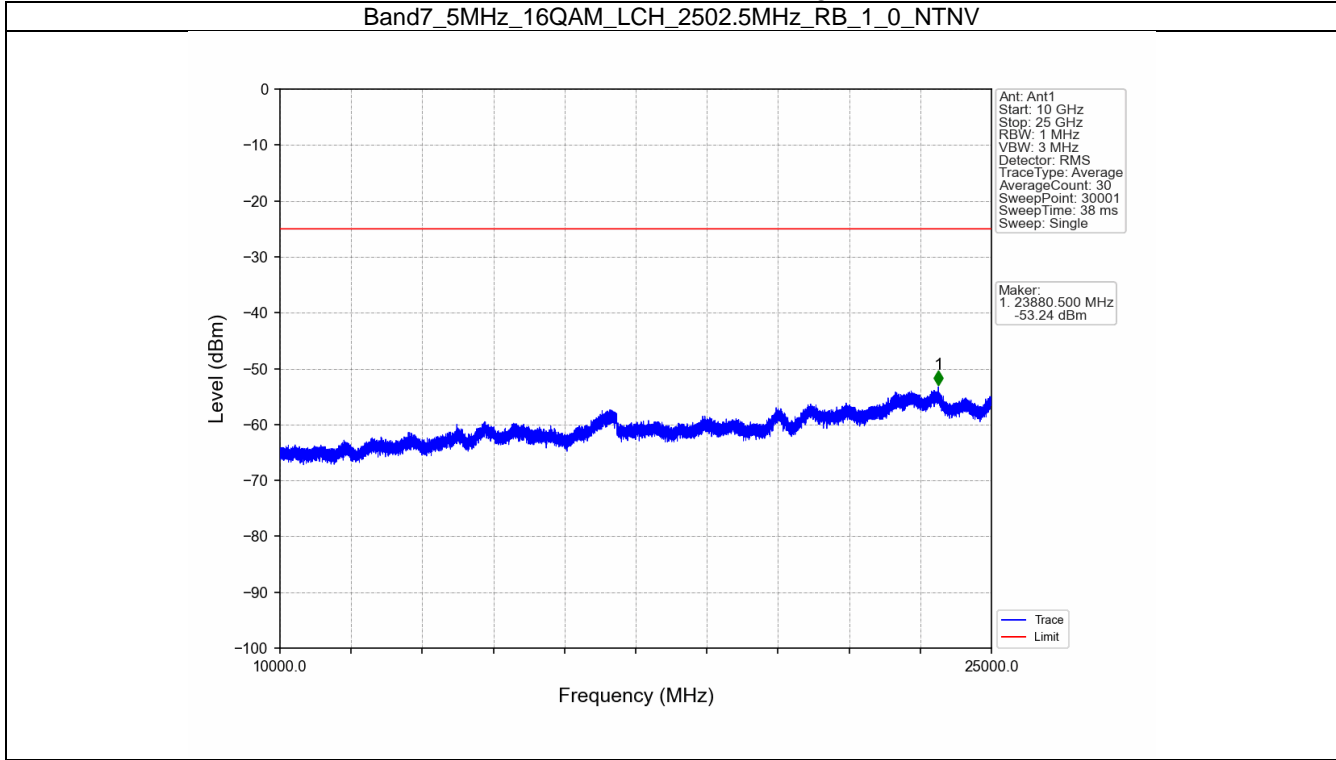


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Band7_5MHz_16QAM_LCH_2502.5MHz_RB_1_0_NTNV

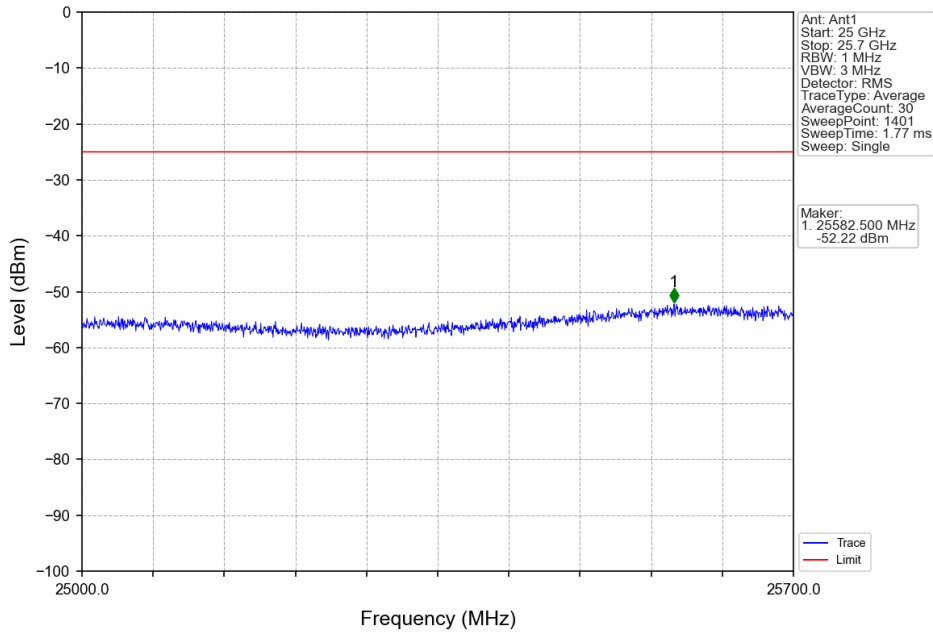


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Band7_5MHz_16QAM_LCH_2502.5MHz_RB_1_0_NTNV

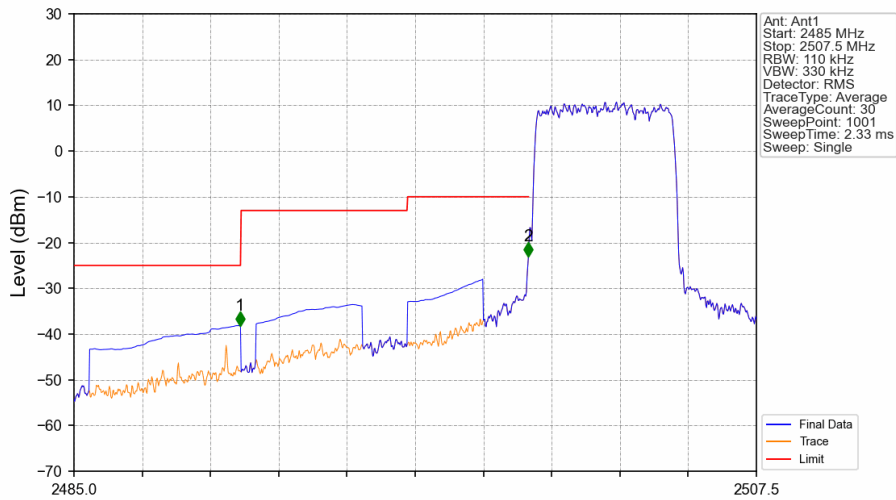


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Band7_5MHz_16QAM_LCH_2502.5MHz_RB_25_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2485	2499	1	CHP	1	2490.468	-38.17	-25	Pass
2499	2500	0.11	/	2	2499.985	-23.00	-10	Pass
2500	2507.5	0.11	/	/	/	/	/	/



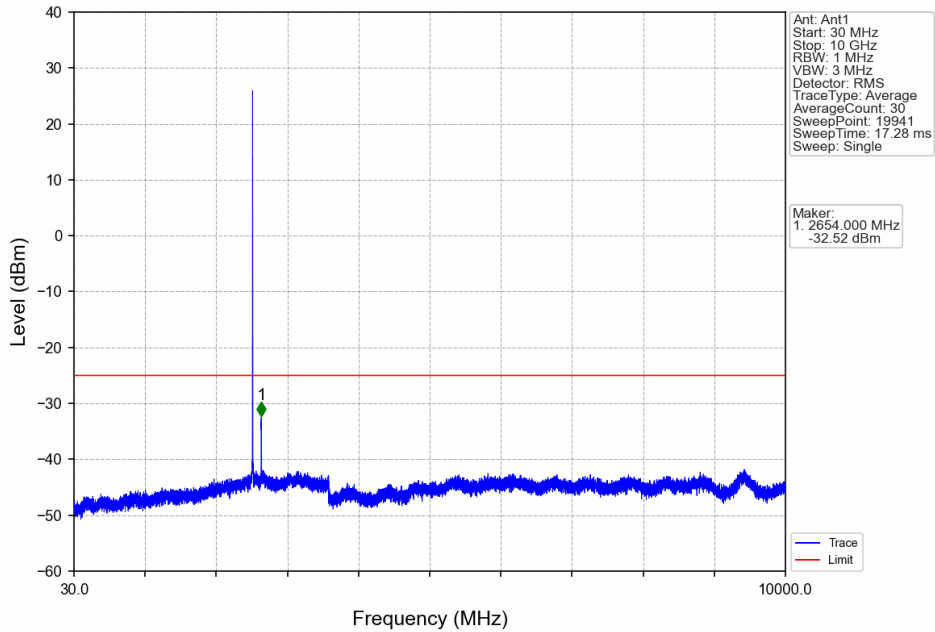
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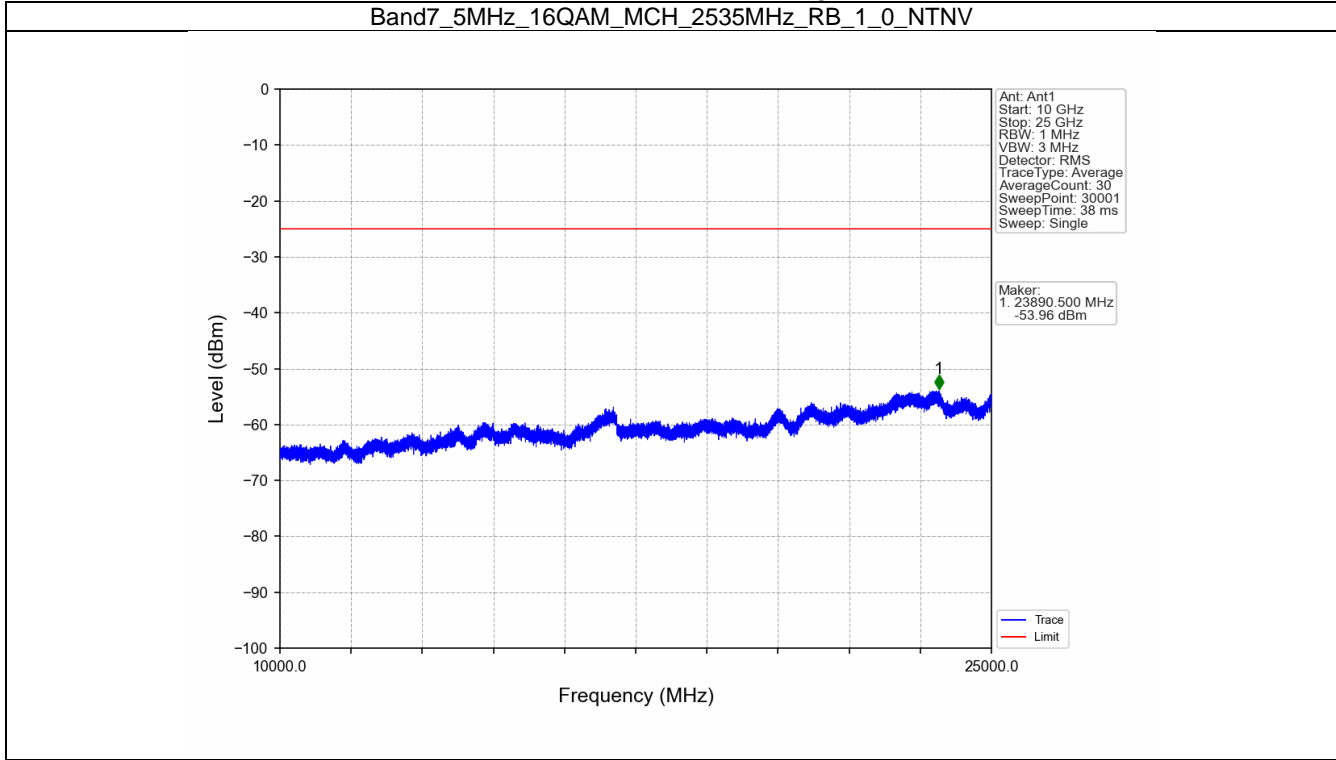
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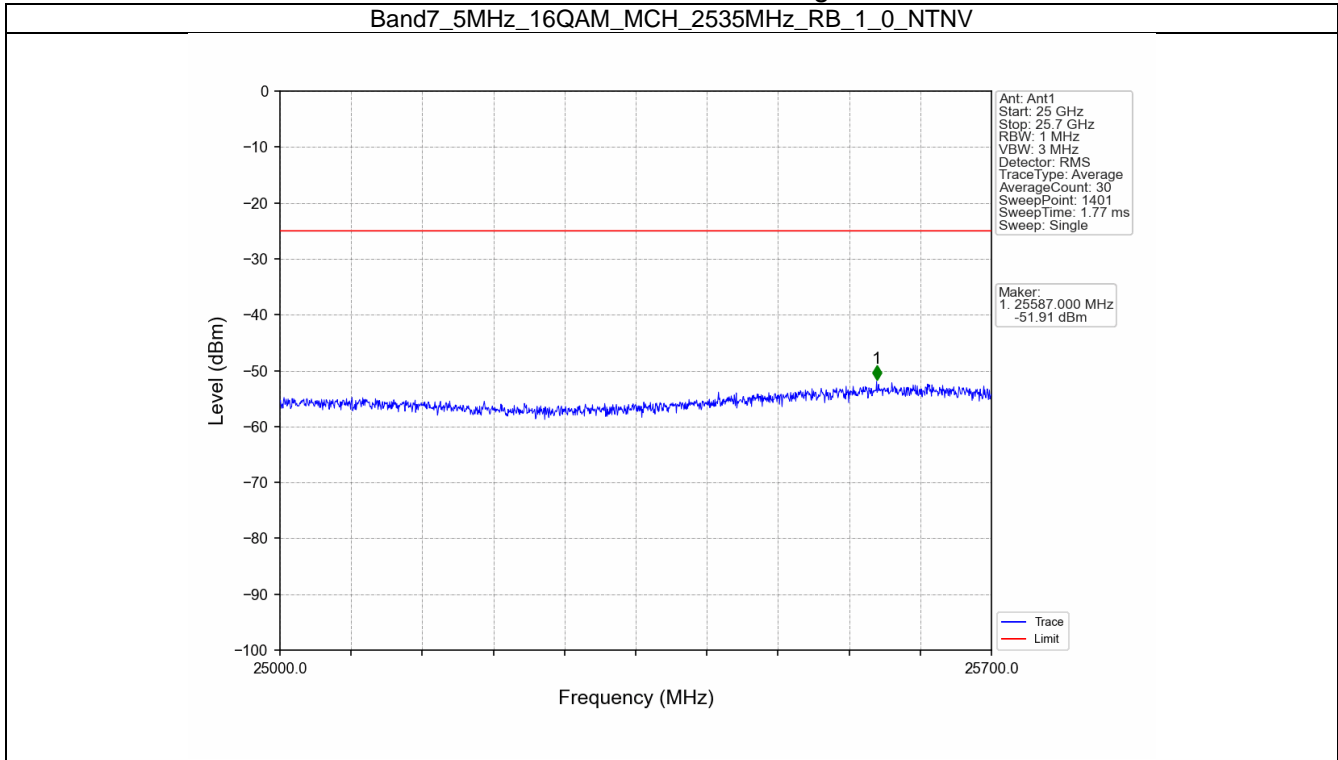
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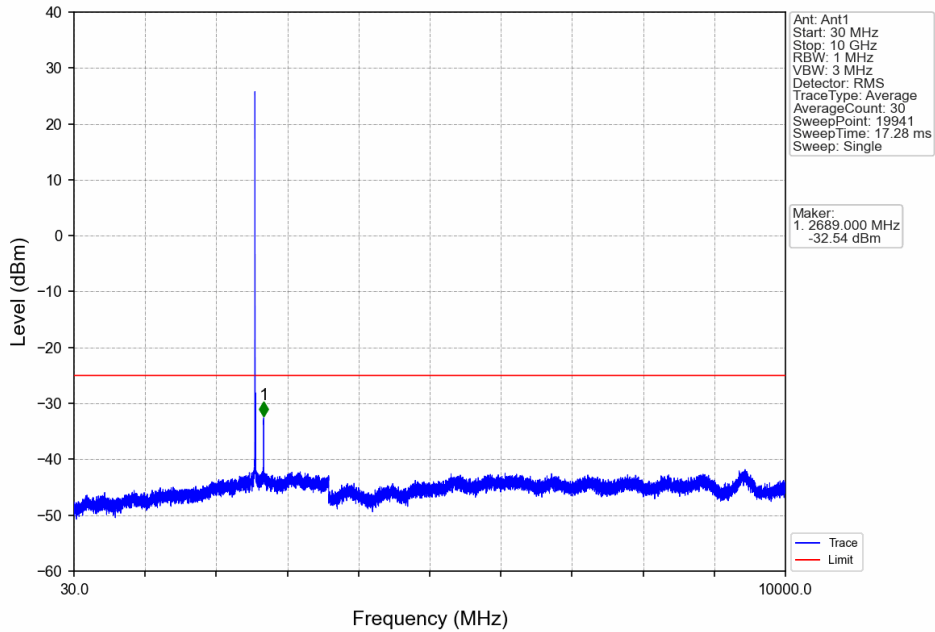
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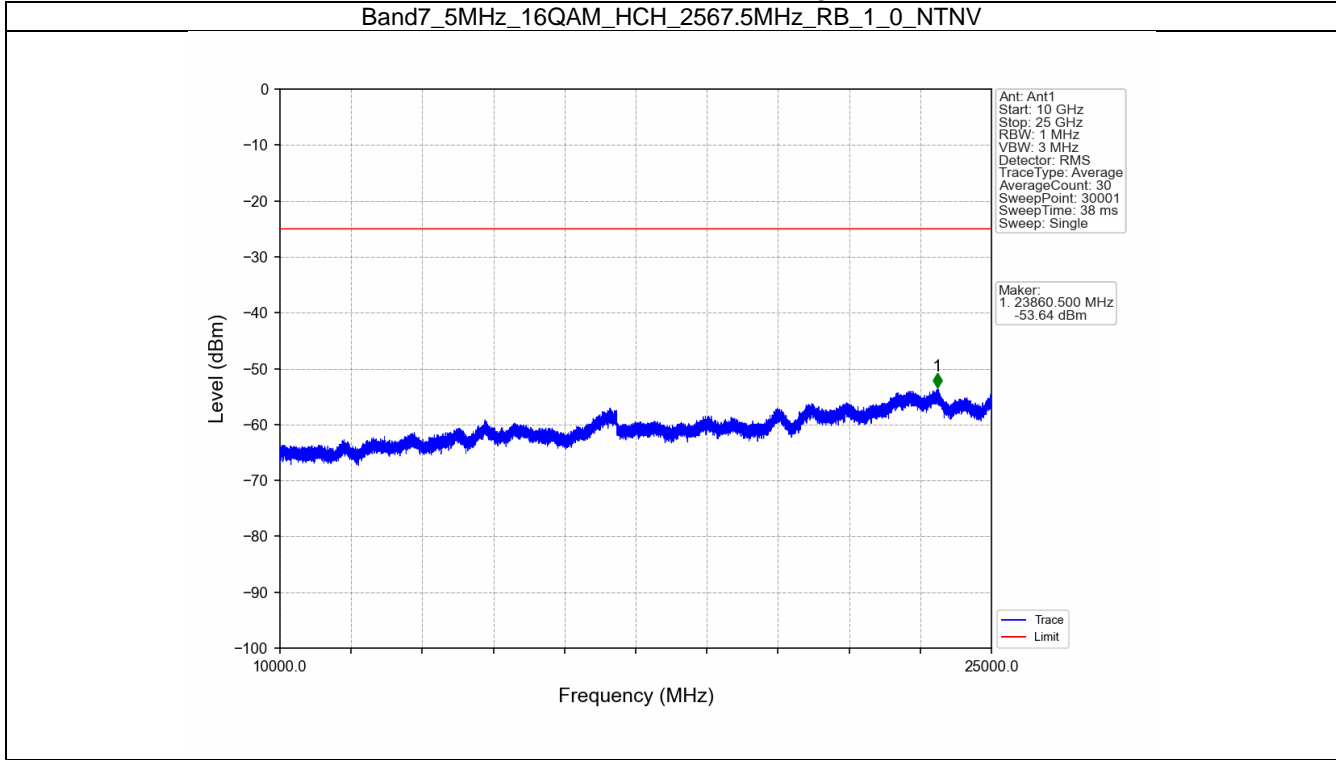
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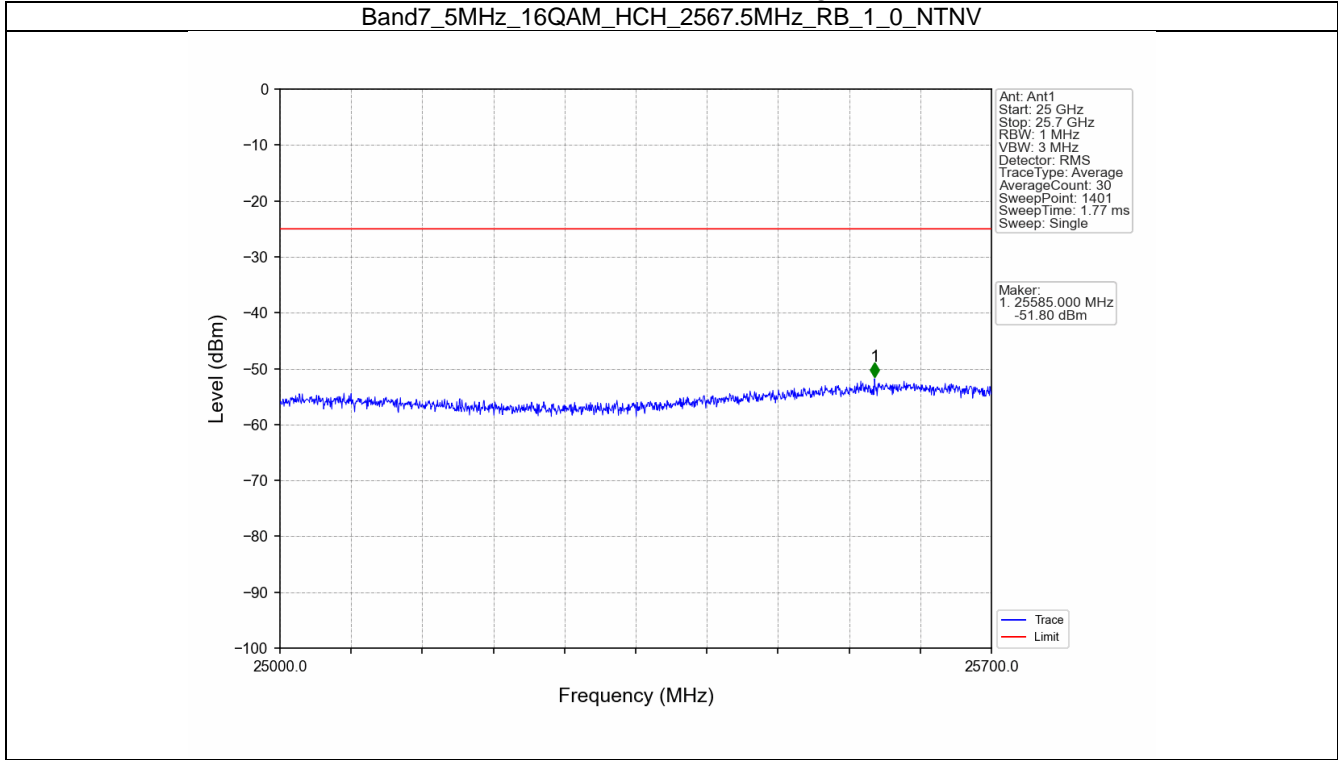
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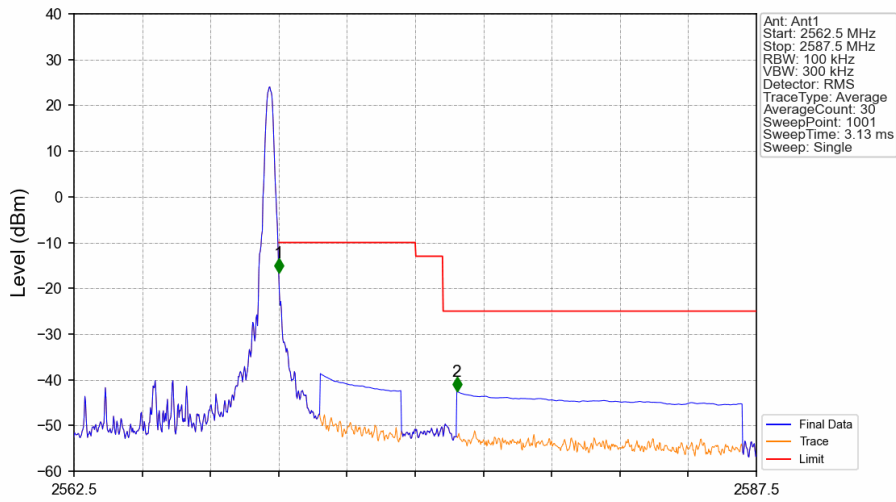


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Band7_5MHz_16QAM_HCH_2567.5MHz_RB_1_24_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2562.5	2570	0.1	/	/	/	/	/	/
2570	2571	0.1	/	1	2570.000	-16.56	-10	Pass
2571	2587.5	1	CHP	2	2576.525	-42.55	-25	Pass

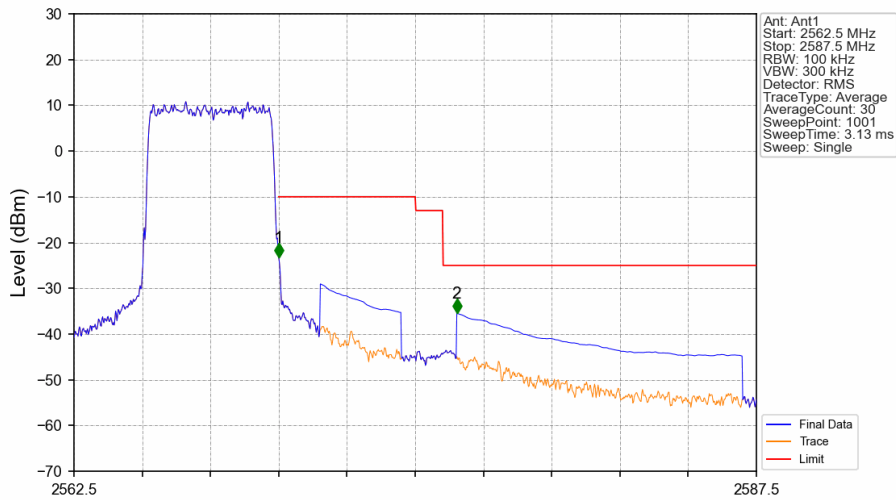


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Band7_5MHz_16QAM_HCH_2567.5MHz_RB_25_0_NTNV



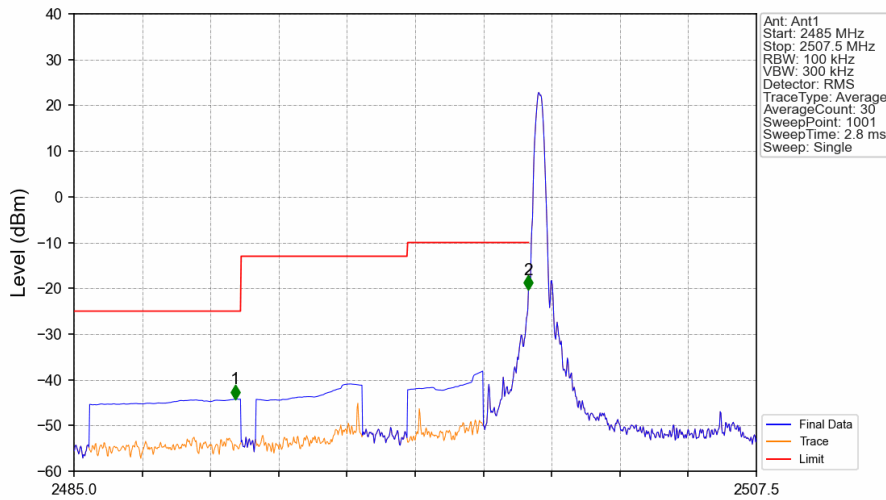
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2562.5	2570	0.1	/	/	/	/	/	/
2570	2571	0.1	/	1	2570.000	-23.21	-10	Pass
2571	2587.5	1	CHP	2	2576.525	-35.48	-25	Pass



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Band7_5MHz_64QAM_LCH_2502.5MHz_RB_1_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2485	2499	1	CHP	1	2490.310	-44.23	-25	Pass
2499	2500	0.1	/	2	2499.985	-20.32	-10	Pass
2500	2507.5	0.1	/	/	/	/	/	/



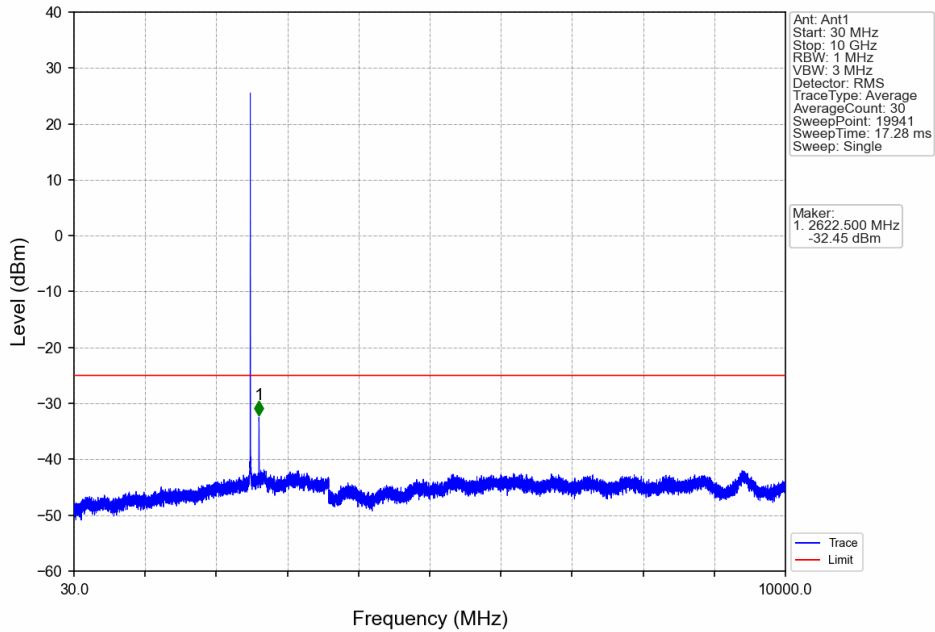
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Band7_5MHz_64QAM_LCH_2502.5MHz_RB_1_0_NTNV



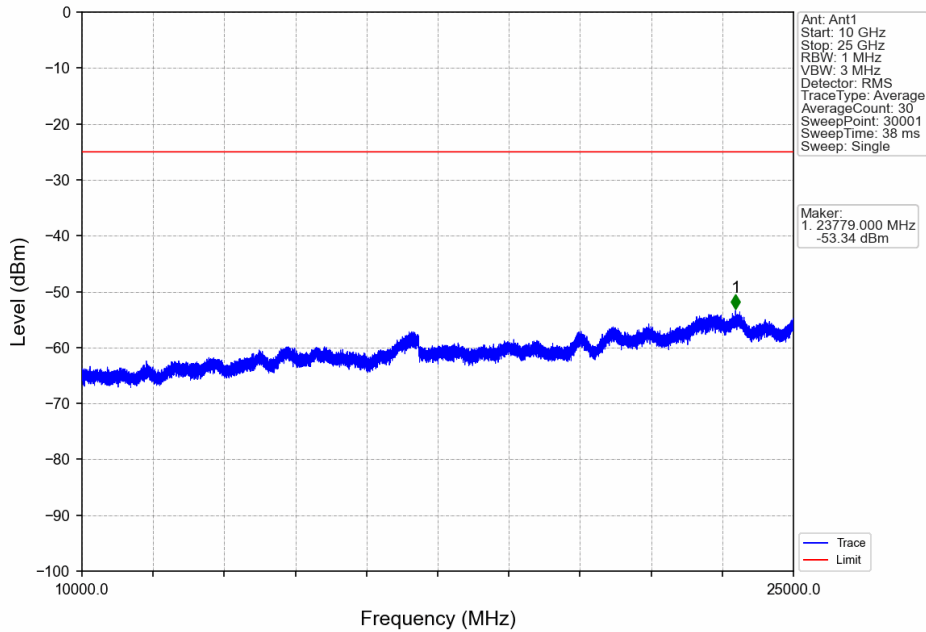
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Band7_5MHz_64QAM_LCH_2502.5MHz_RB_1_0_NTNV



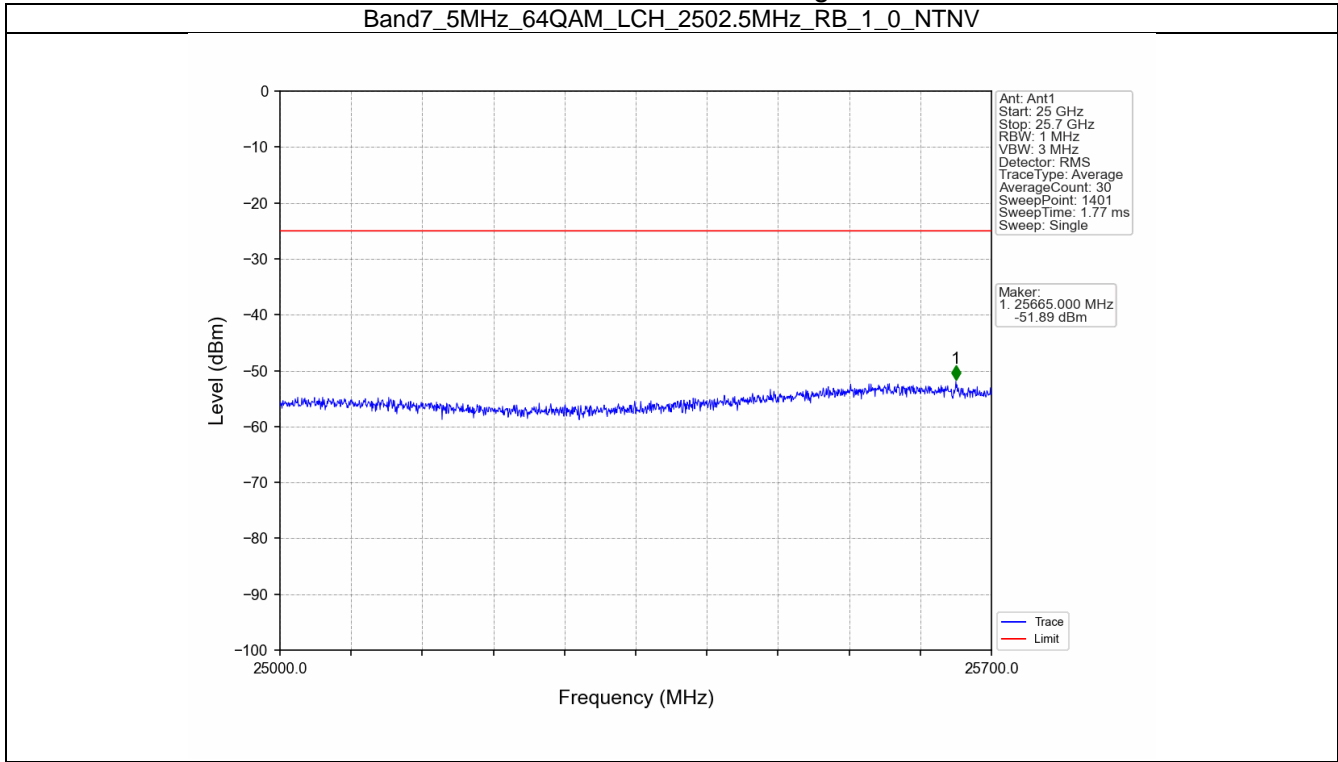
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Band7_5MHz_64QAM_LCH_2502.5MHz_RB_1_0_NTNV

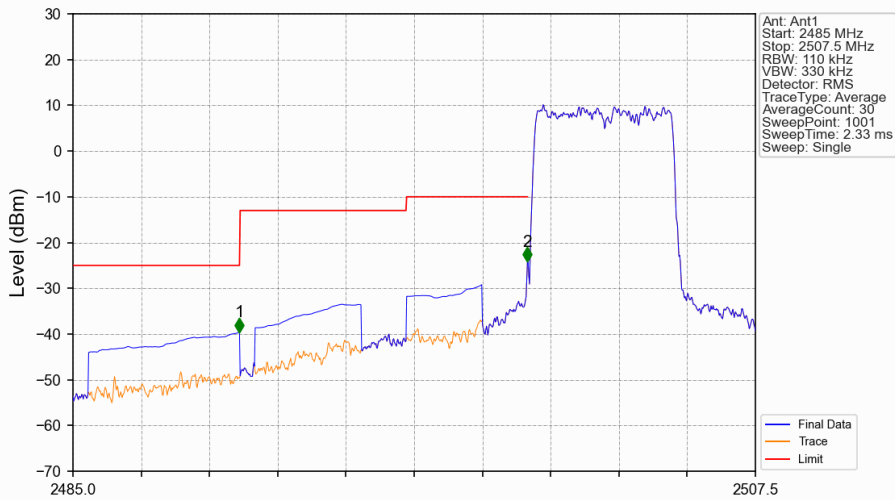


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Band7_5MHz_64QAM_LCH_2502.5MHz_RB_25_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2485	2499	1	CHP	1	2490.490	-39.60	-25	Pass
2499	2500	0.11	/	2	2499.985	-24.14	-10	Pass
2500	2507.5	0.11	/	/	/	/	/	/

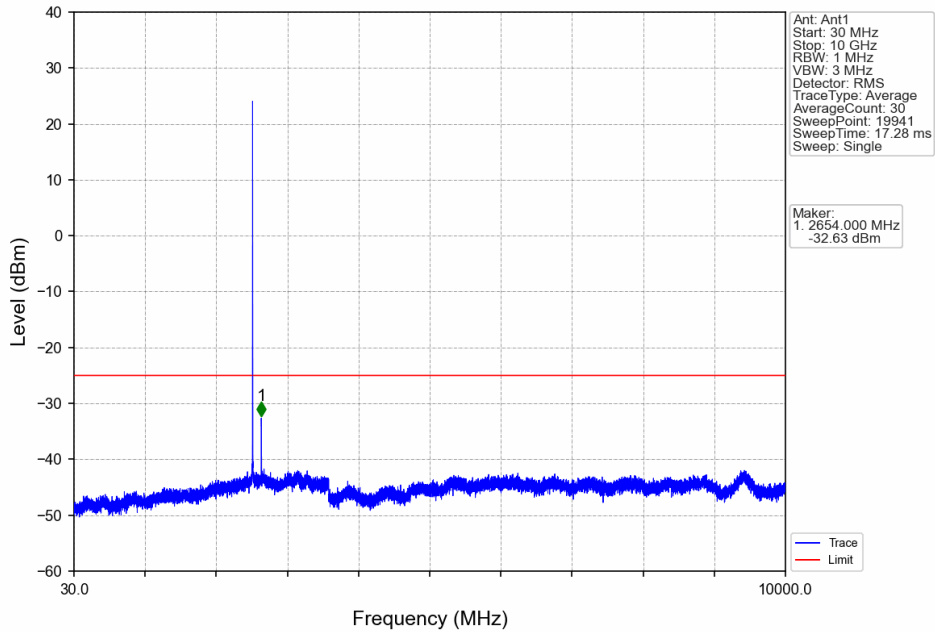


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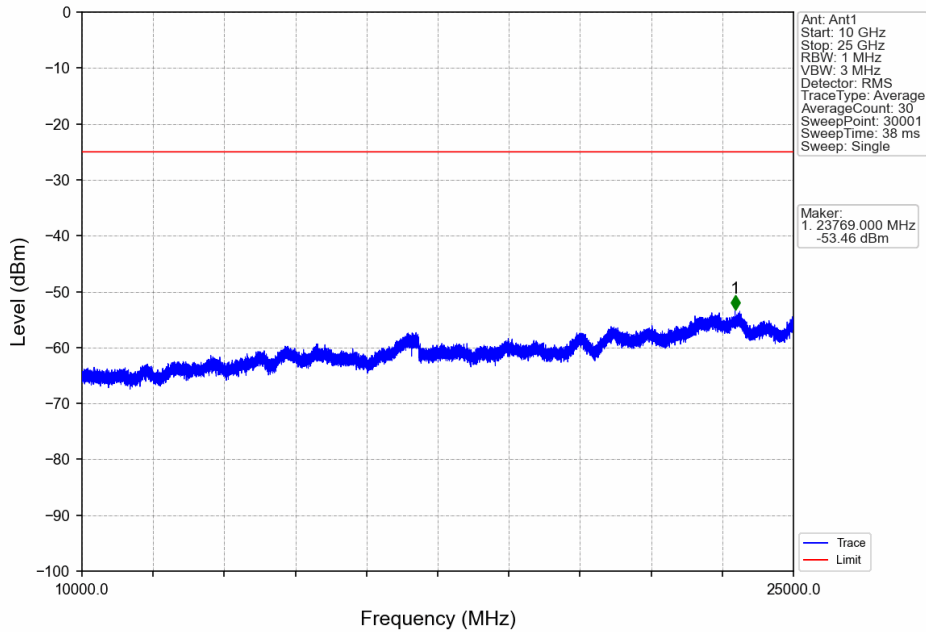


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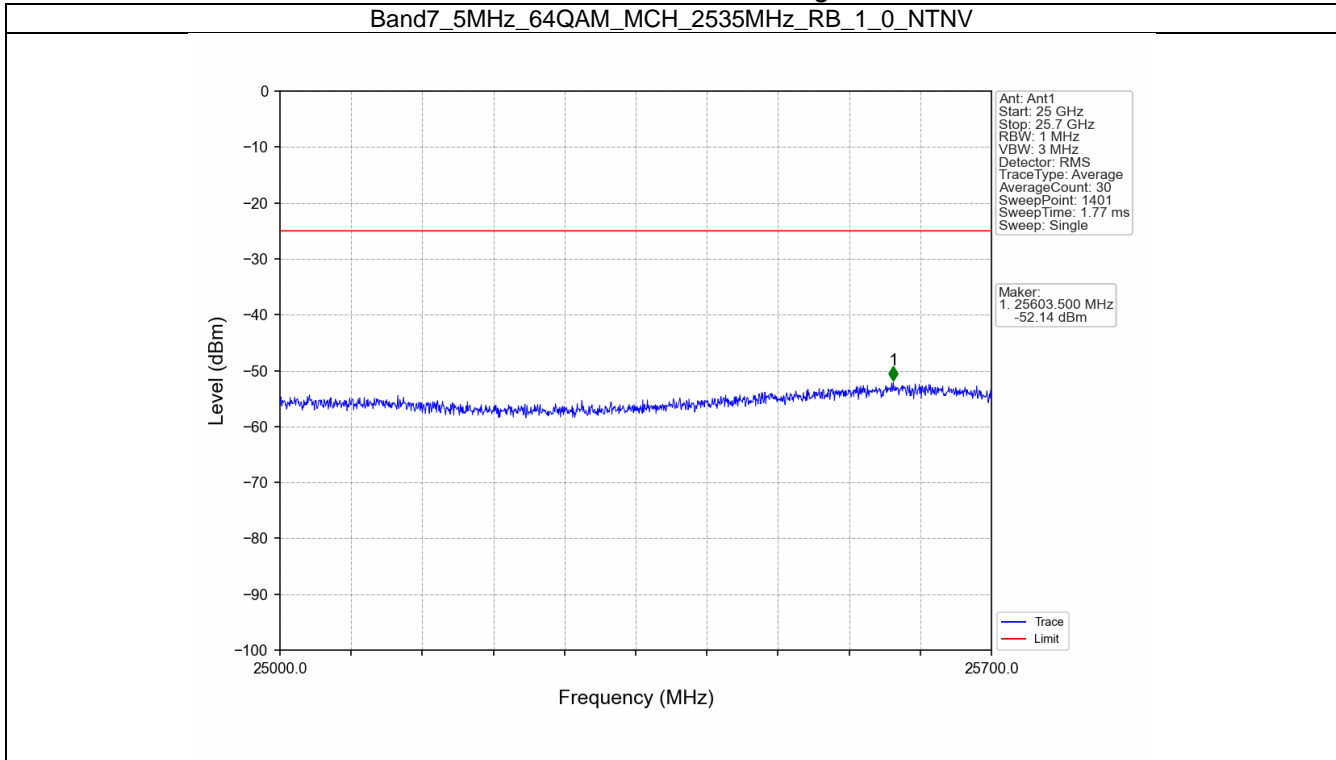
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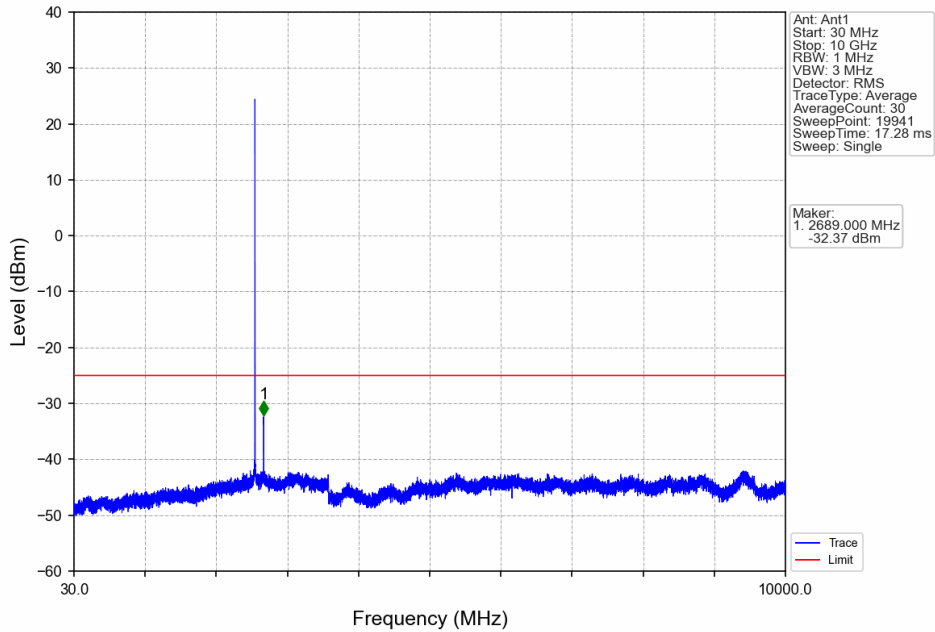
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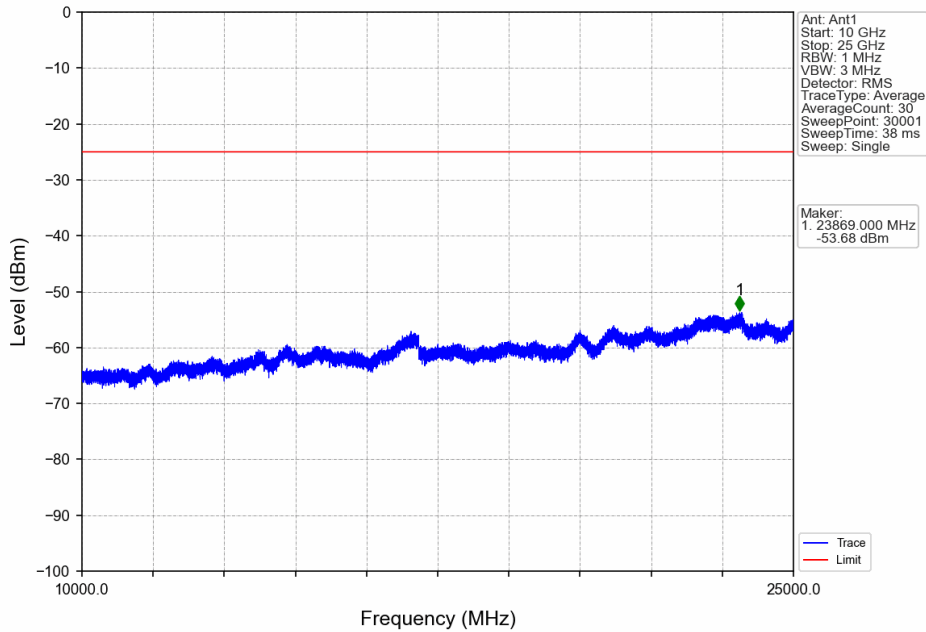
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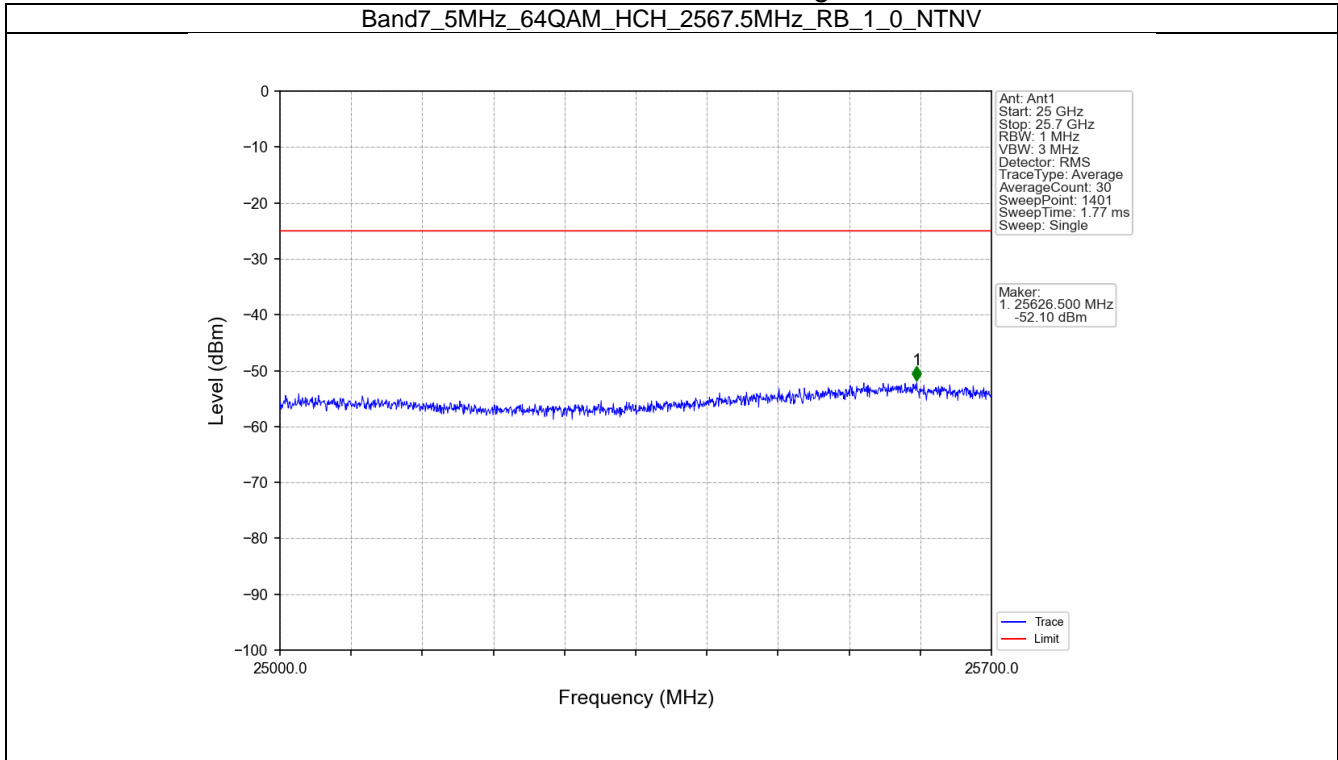
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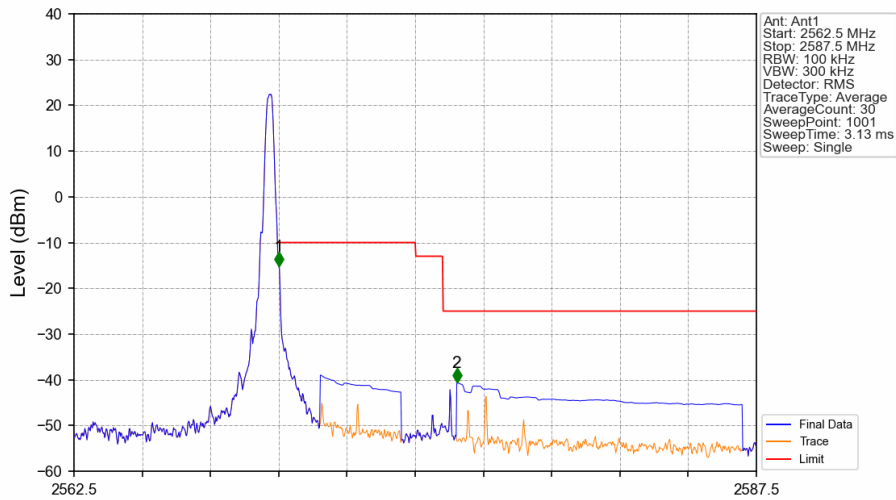


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Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2562.5	2570	0.1	/	/	/	/	/	/
2570	2571	0.1	/	1	2570.000	-15.23	-10	Pass
2571	2587.5	1	CHP	2	2576.525	-40.66	-25	Pass

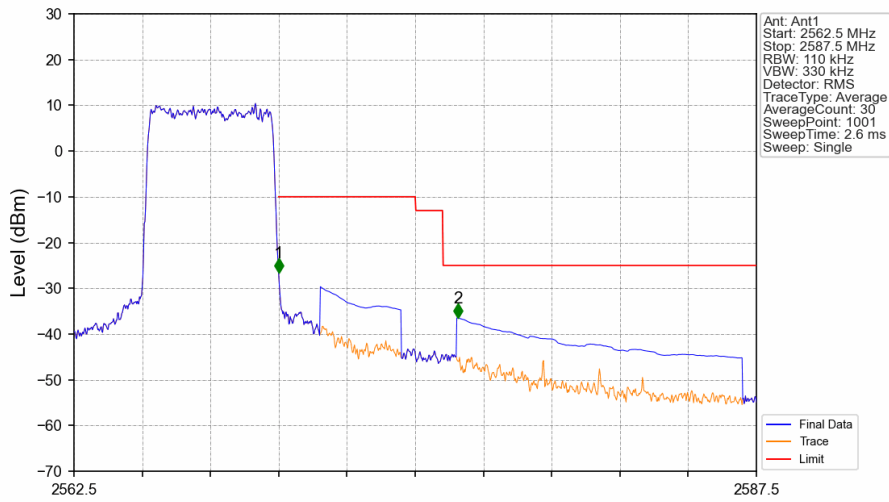


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Band7_5MHz_64QAM_HCH_2567.5MHz_RB_25_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2562.5	2570	0.11	/	/	/	/	/	/
2570	2571	0.11	/	1	2570.000	-26.59	-10	Pass
2571	2587.5	1	CHP	2	2576.575	-36.48	-25	Pass



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4.2 B7_10MHz

4.2.1 Test Result

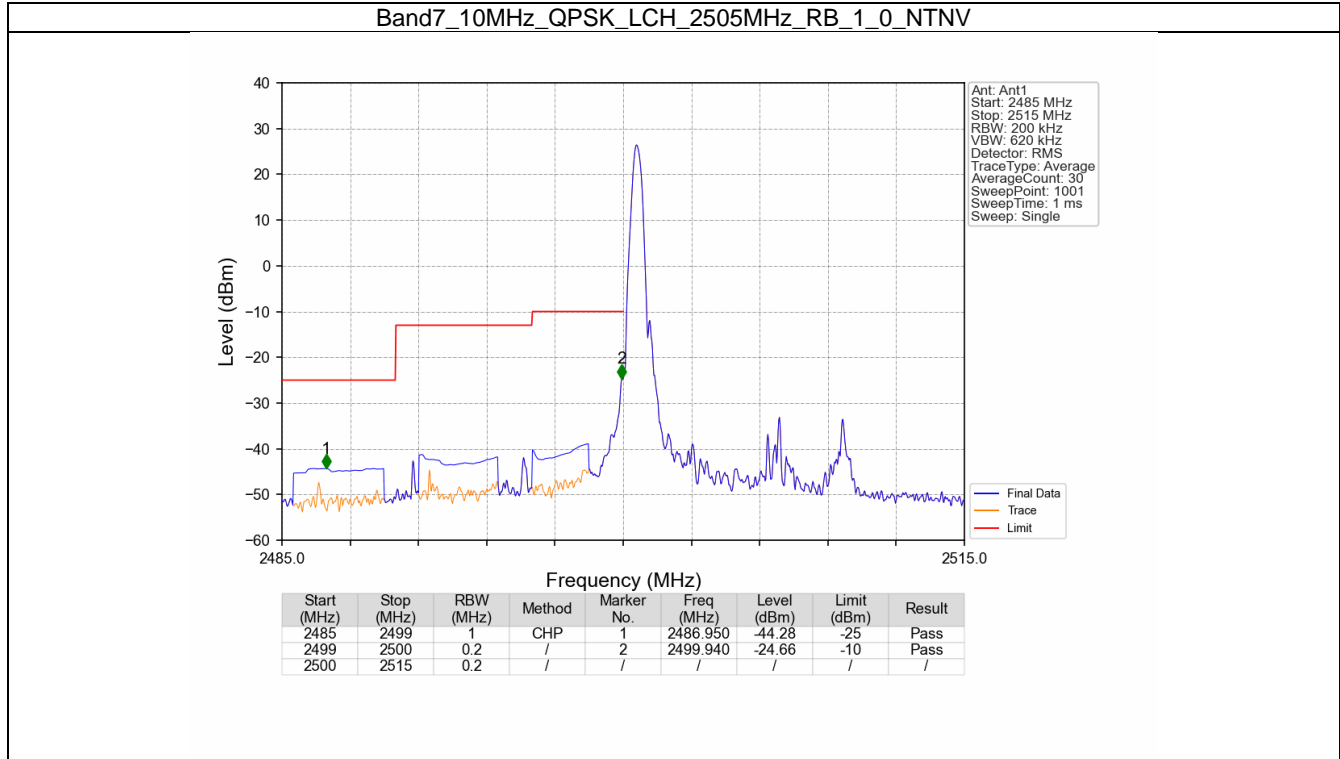
Band: 7 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	2505	1	0	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
	2565	1	0	Refer To Test Graph		Pass
			49	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
16QAM	2505	1	0	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
	2565	1	0	Refer To Test Graph		Pass
			49	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
64QAM	2505	1	0	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
	2565	1	0	Refer To Test Graph		Pass
			49	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass



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4.2.2 Test Graph

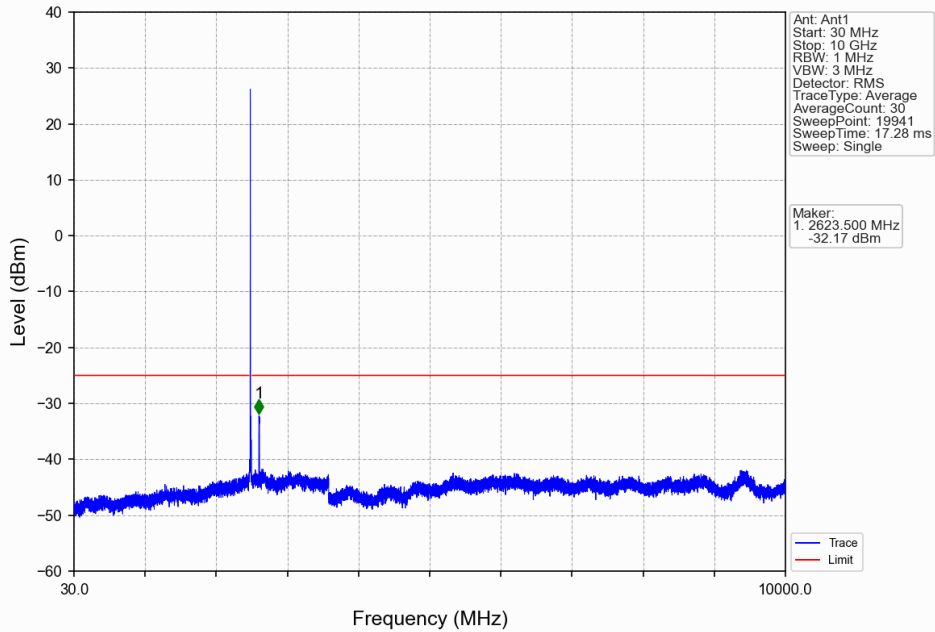


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Band7_10MHz_QPSK_LCH_2505MHz_RB_1_0_NTNV



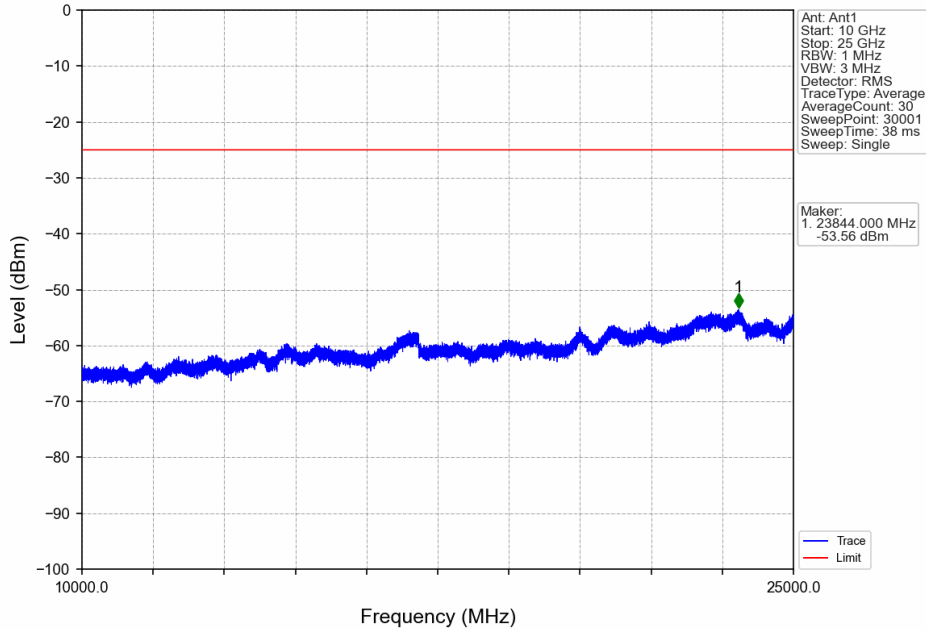
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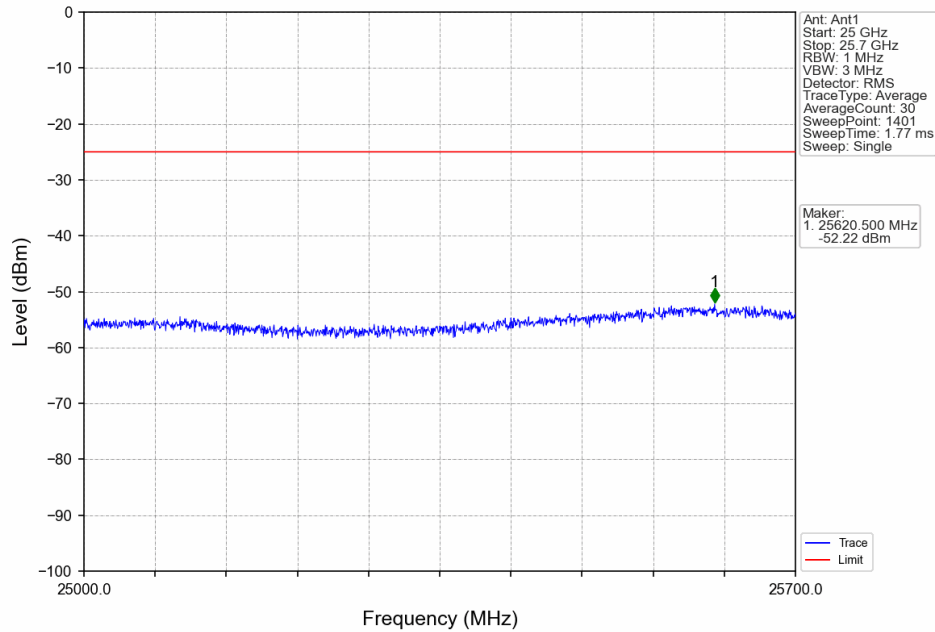
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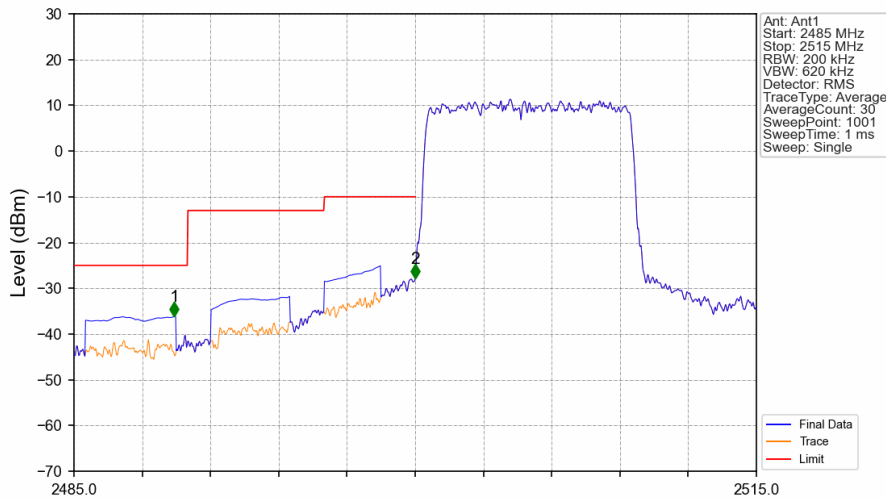


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Band7_10MHz_QPSK_LCH_2505MHz_RB_50_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2485	2499	1	CHP	1	2489.410	-36.14	-25	Pass
2499	2500	0.2	/	2	2500.000	-27.85	-10	Pass
2500	2515	0.2	/	/	/	/	/	/

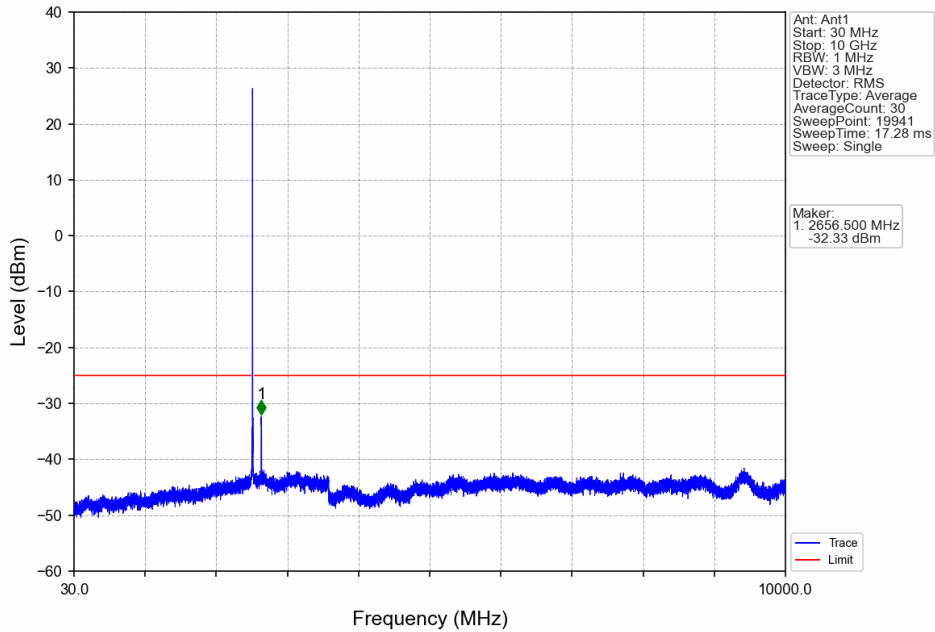


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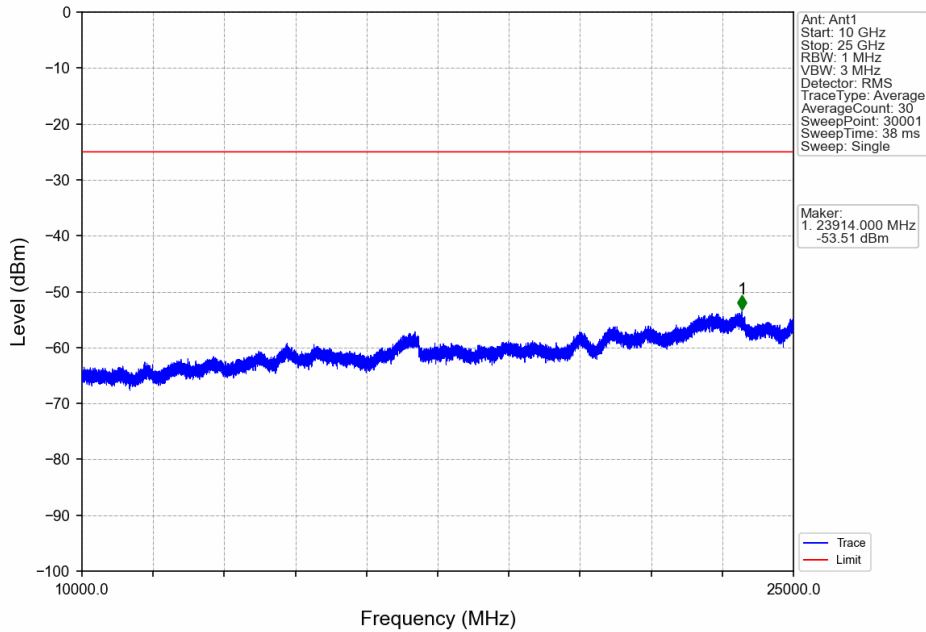
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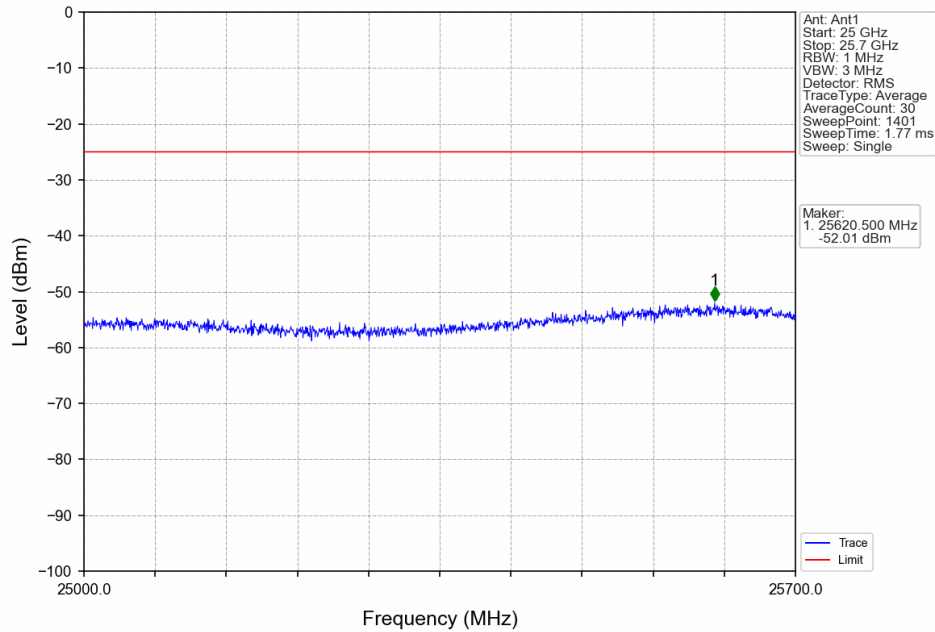
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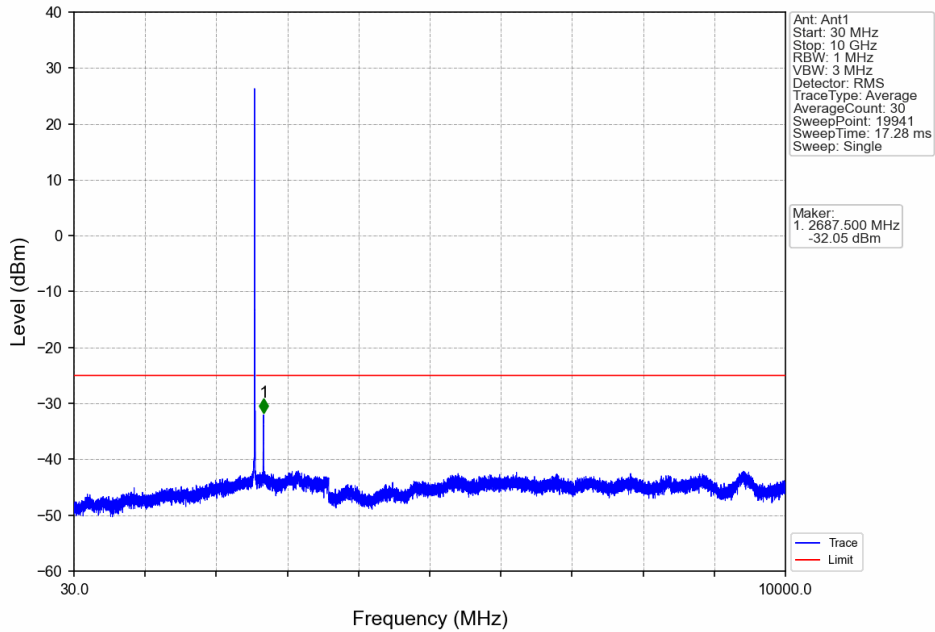
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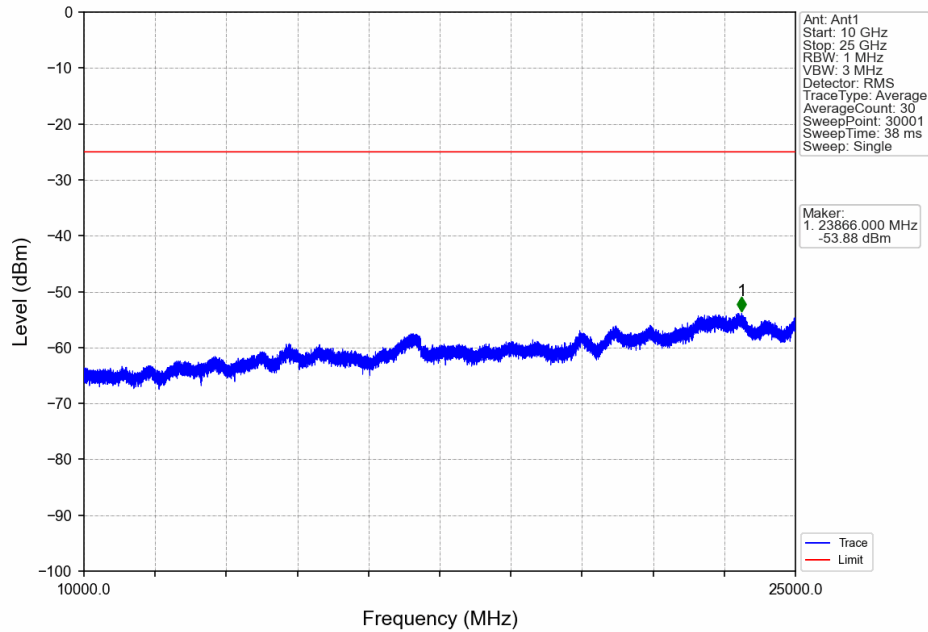
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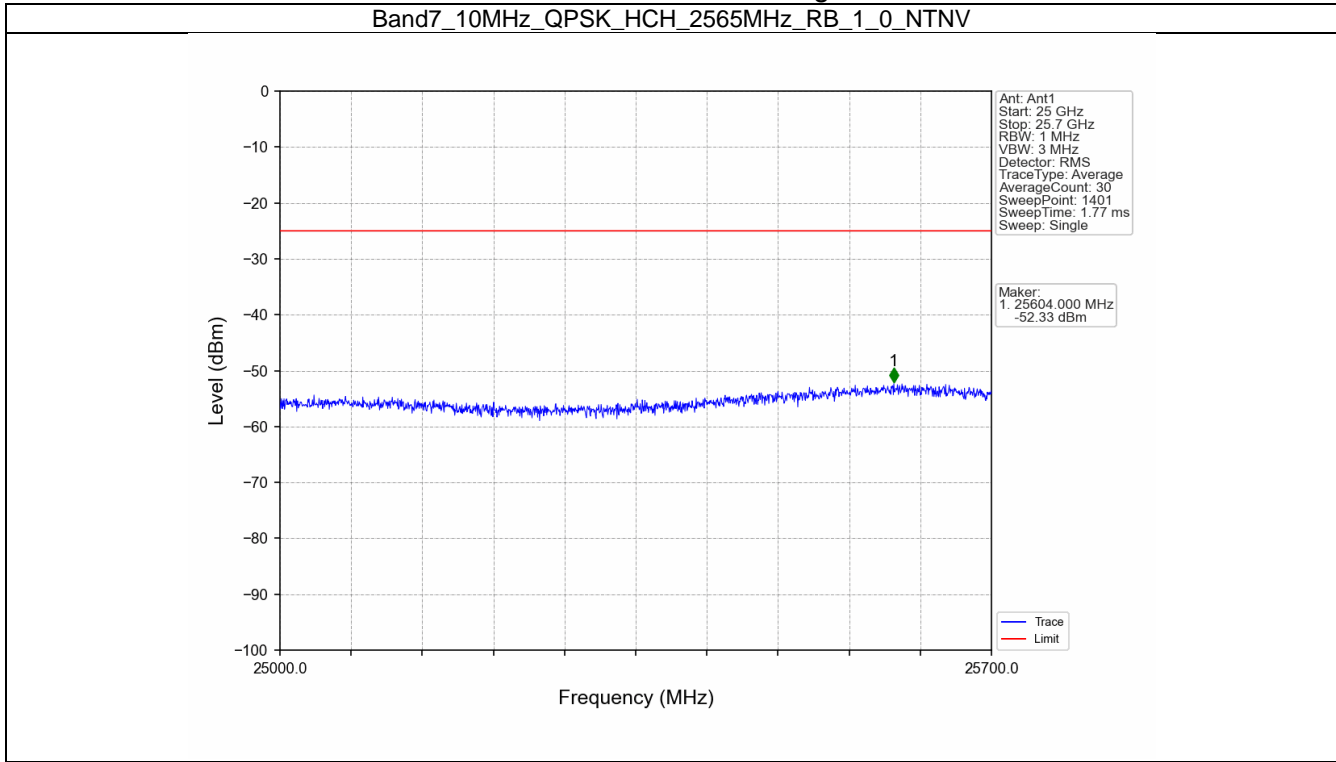
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Band7_10MHz_QPSK_HCH_2565MHz_RB_1_0_NTNV

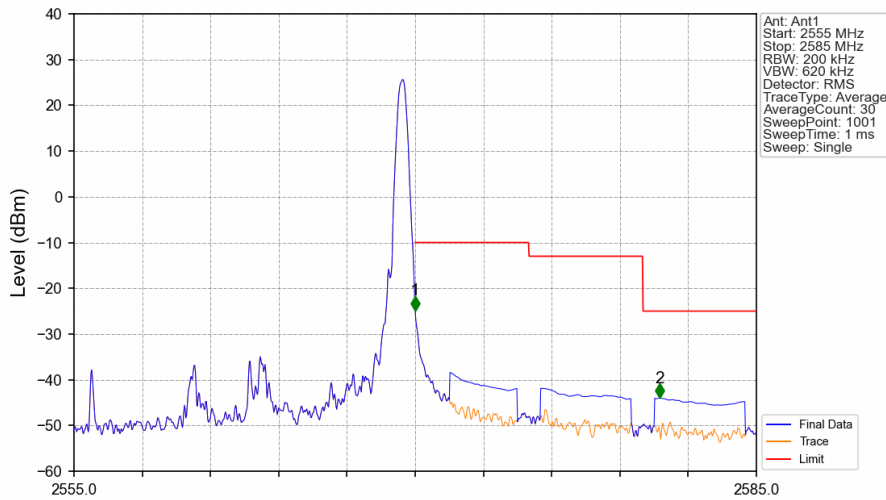


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Band7_10MHz_QPSK_HCH_2565MHz_RB_1_49_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2555	2570	0.2	/	/	/	/	/	/
2570	2571	0.2	/	1	2570.000	-24.83	-10	Pass
2571	2585	1	CHP	2	2580.740	-44.02	-25	Pass

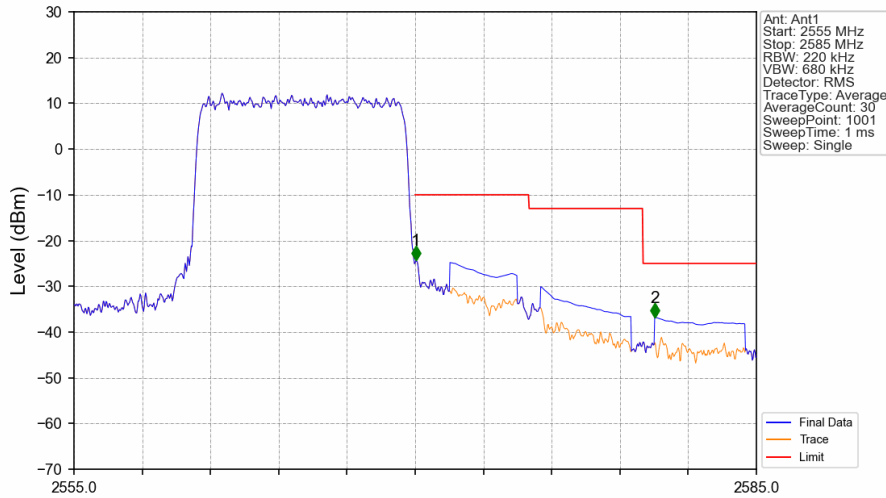


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Band7_10MHz_QPSK_HCH_2565MHz_RB_50_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2555	2570	0.22	/	/	/	/	/	/
2570	2571	0.22	/	1	2570.030	-24.35	-10	Pass
2571	2585	1	CHP	2	2580.530	-36.80	-25	Pass

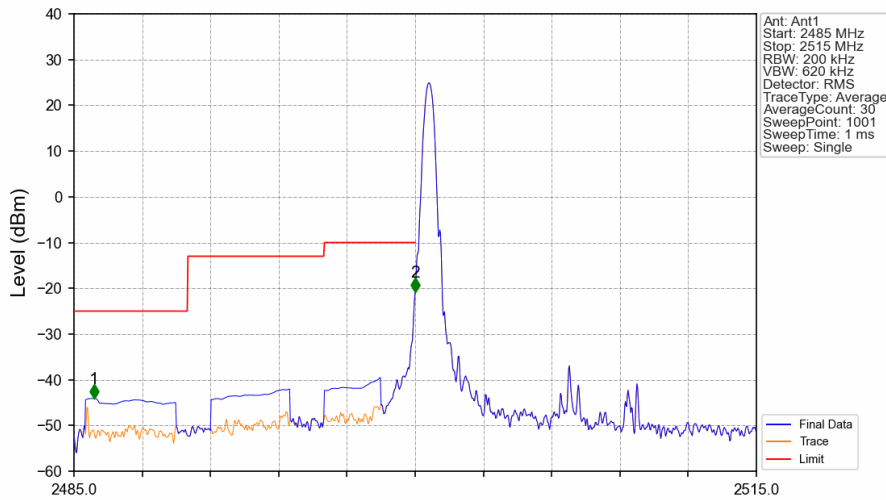


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Band7_10MHz_16QAM_LCH_2505MHz_RB_1_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2485	2499	1	CHP	1	2485.870	-44.10	-25	Pass
2499	2500	0.2	/	2	2500.000	-20.84	-10	Pass
2500	2515	0.2	/	/	/	/	/	/

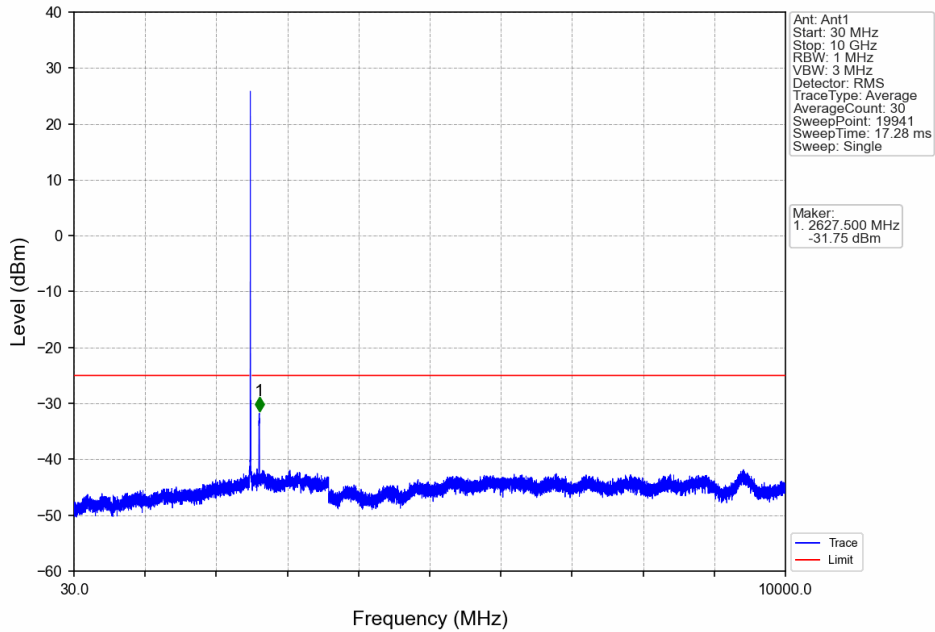


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Band7_10MHz_16QAM_LCH_2505MHz_RB_1_0_NTNV

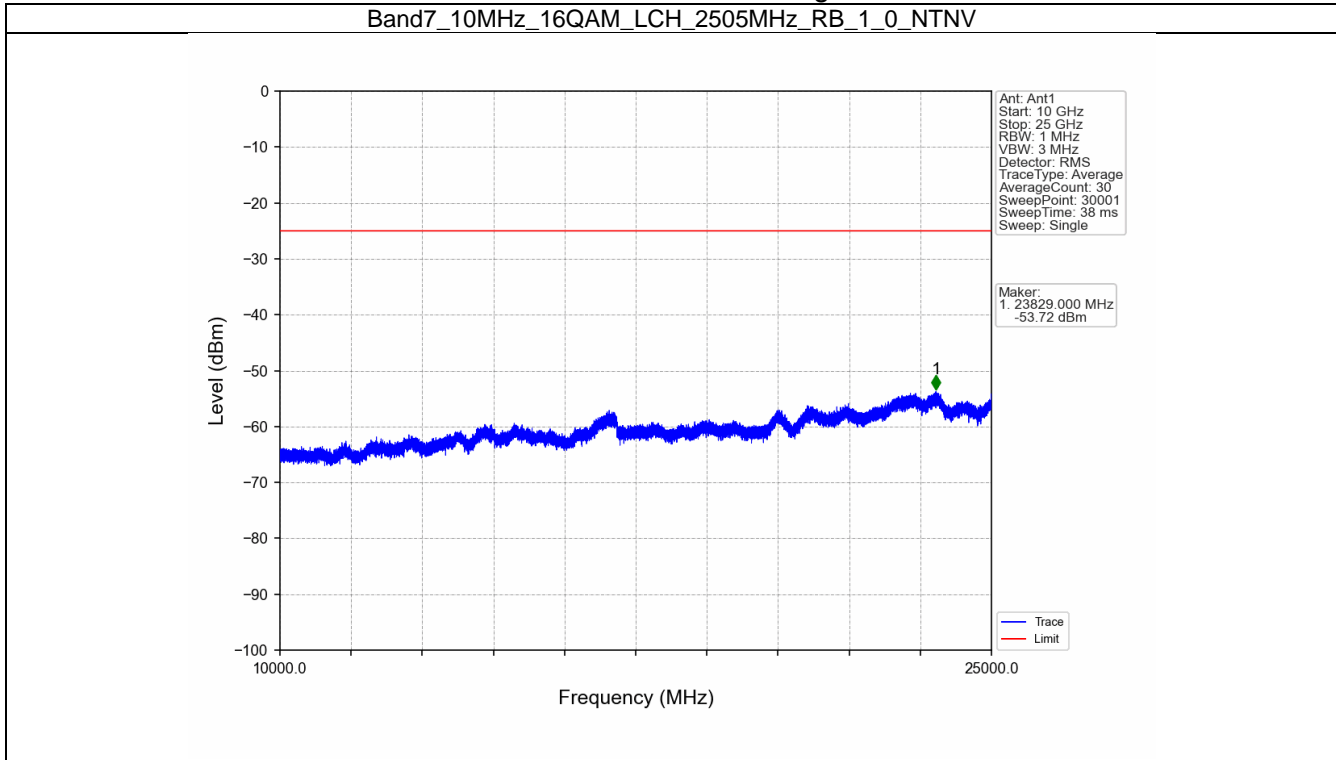


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Band7_10MHz_16QAM_LCH_2505MHz_RB_1_0_NTNV



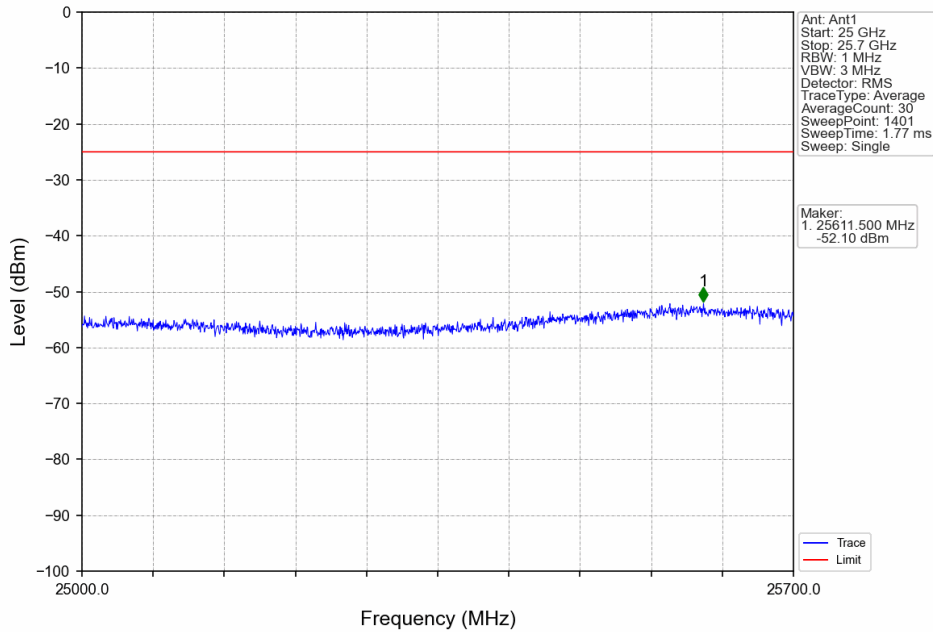
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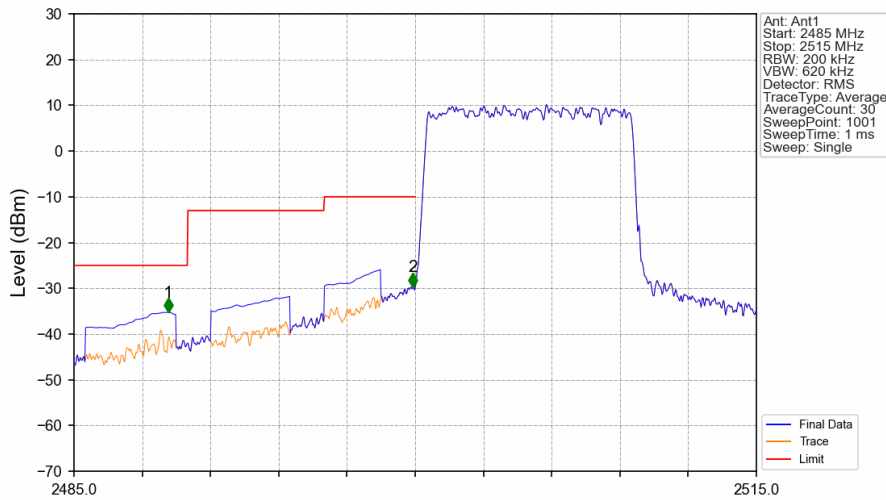


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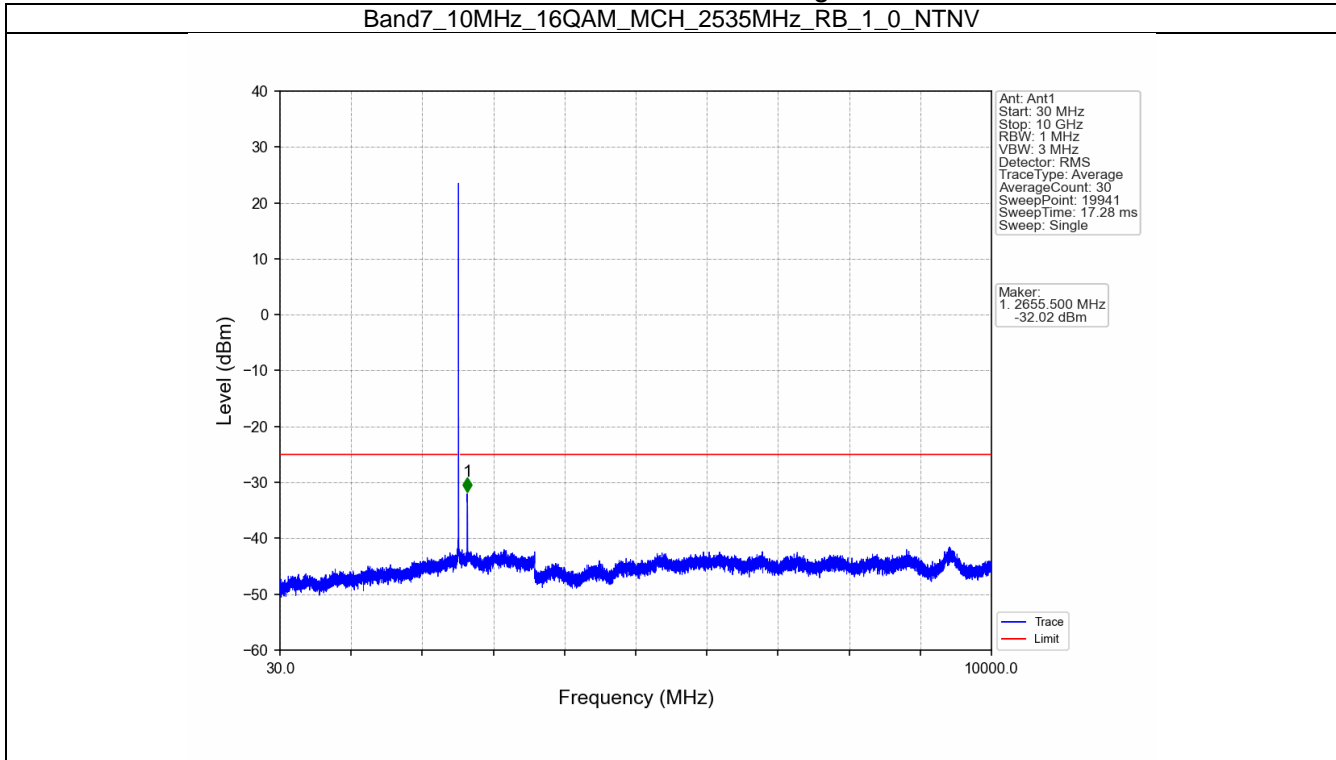
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2485	2499	1	CHP	1	2489.140	-35.25	-25	Pass
2499	2500	0.2	/	2	2499.910	-29.72	-10	Pass
2500	2515	0.2	/	/	/	/	/	/



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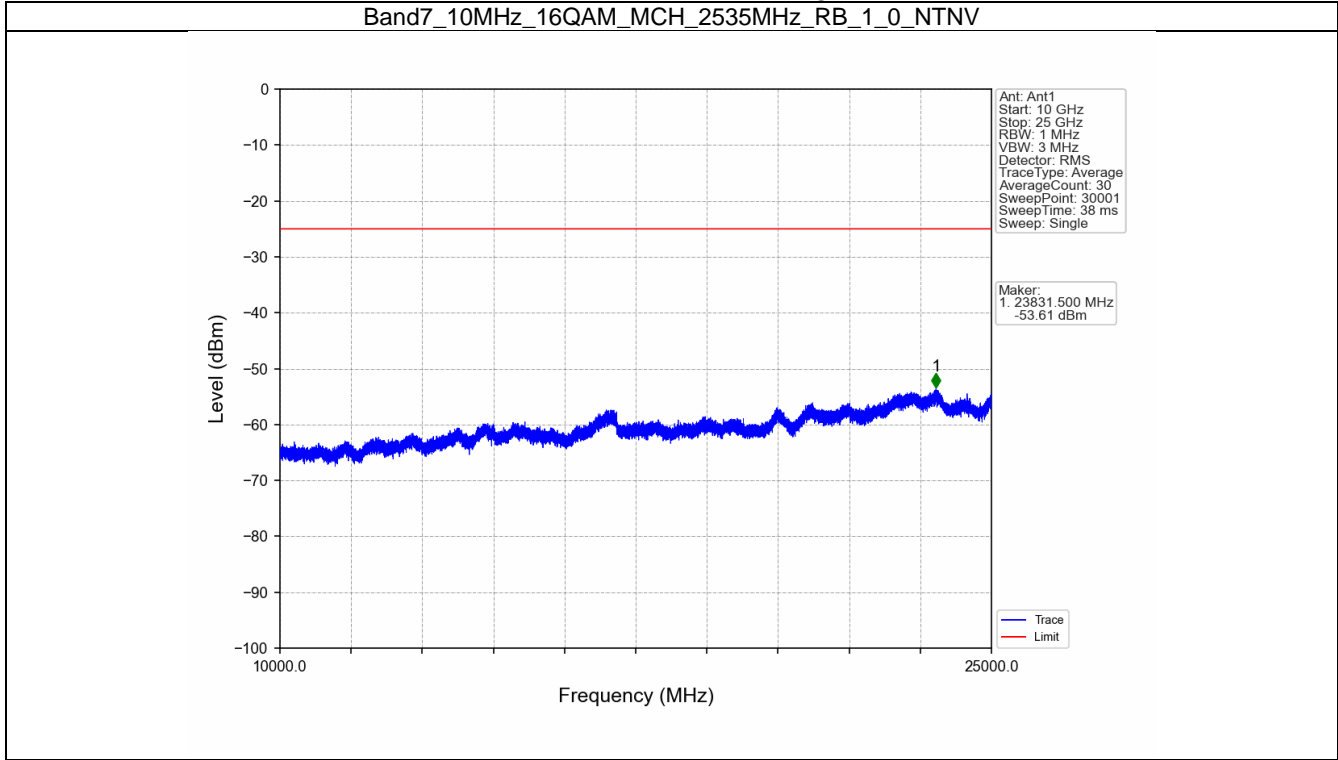


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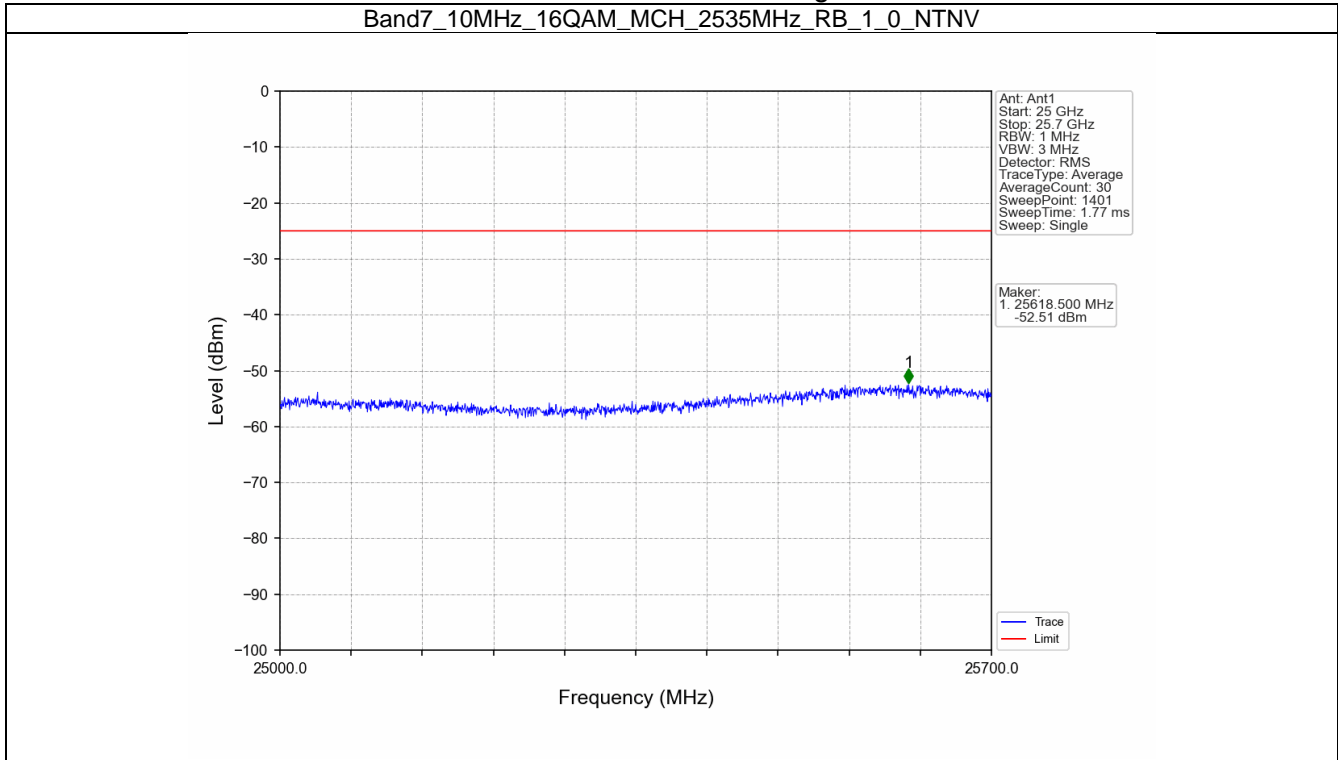
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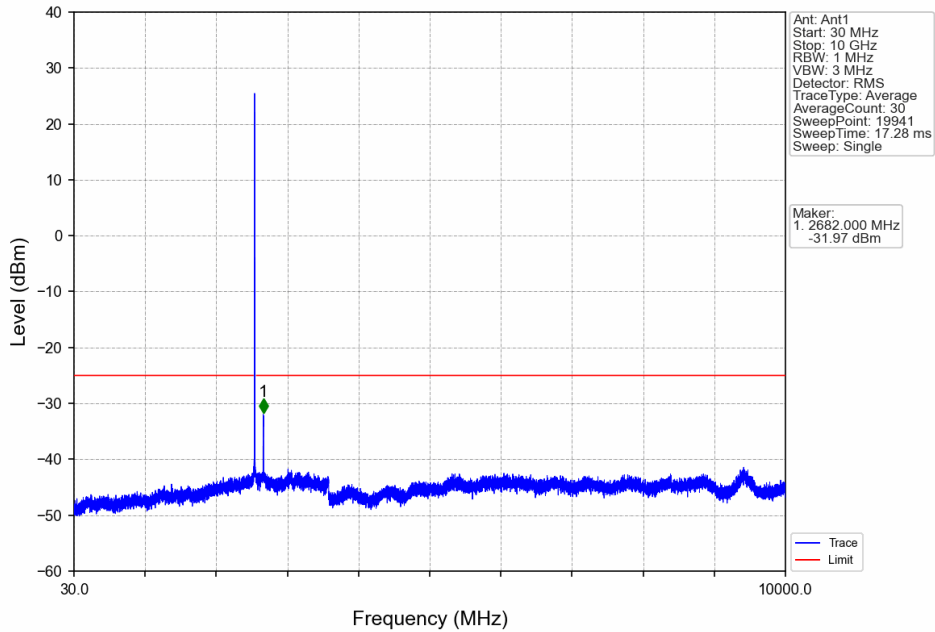
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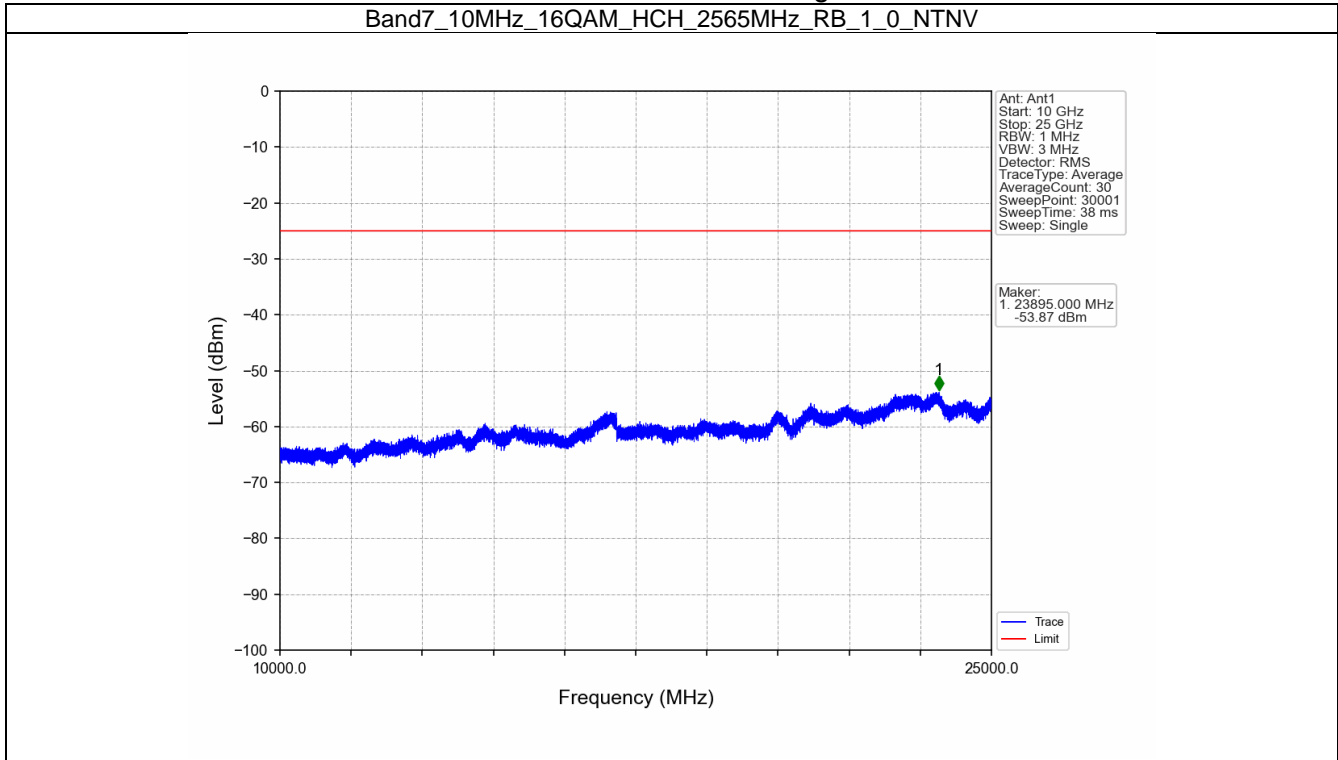


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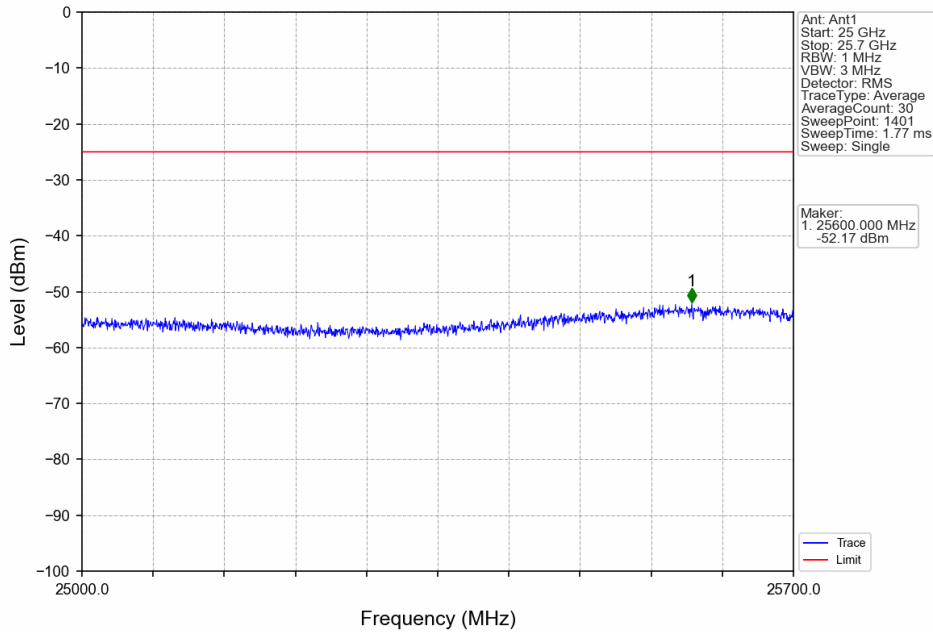
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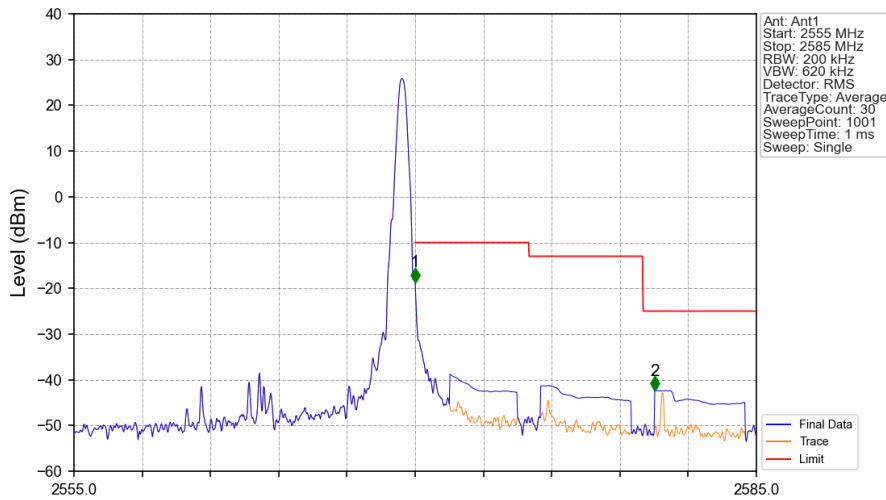


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Band7_10MHz_16QAM_HCH_2565MHz_RB_1_49_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2555	2570	0.2	/	/	/	/	/	/
2570	2571	0.2	/	1	2570.000	-18.66	-10	Pass
2571	2585	1	CHP	2	2580.530	-42.34	-25	Pass

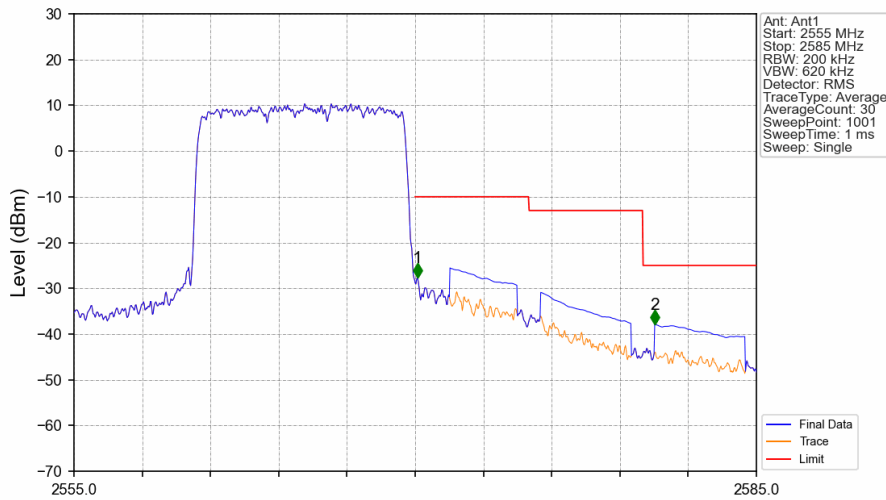


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Band7_10MHz_16QAM_HCH_2565MHz_RB_50_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2555	2570	0.2	/	/	/	/	/	/
2570	2571	0.2	/	1	2570.090	-27.64	-10	Pass
2571	2585	1	CHP	2	2580.530	-37.88	-25	Pass

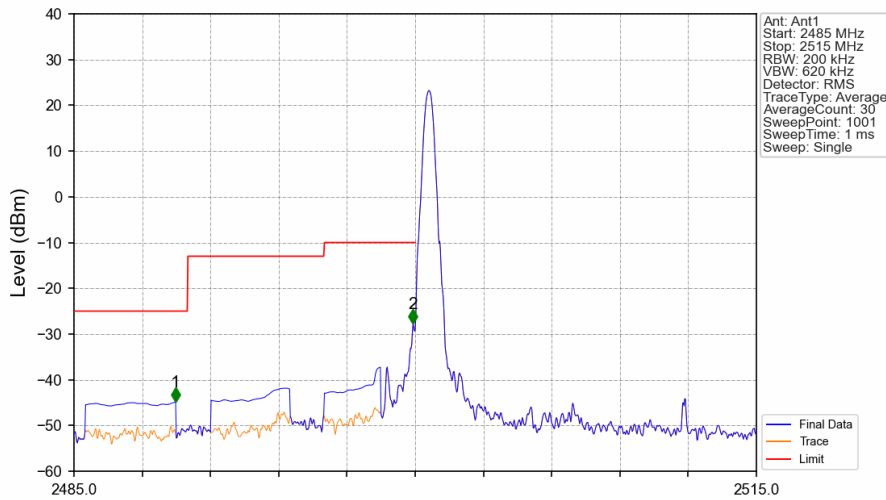


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Band7_10MHz_64QAM_LCH_2505MHz_RB_1_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2485	2499	1	CHP	1	2489.470	-44.84	-25	Pass
2499	2500	0.2	/	2	2499.910	-27.77	-10	Pass
2500	2515	0.2	/	/	/	/	/	/

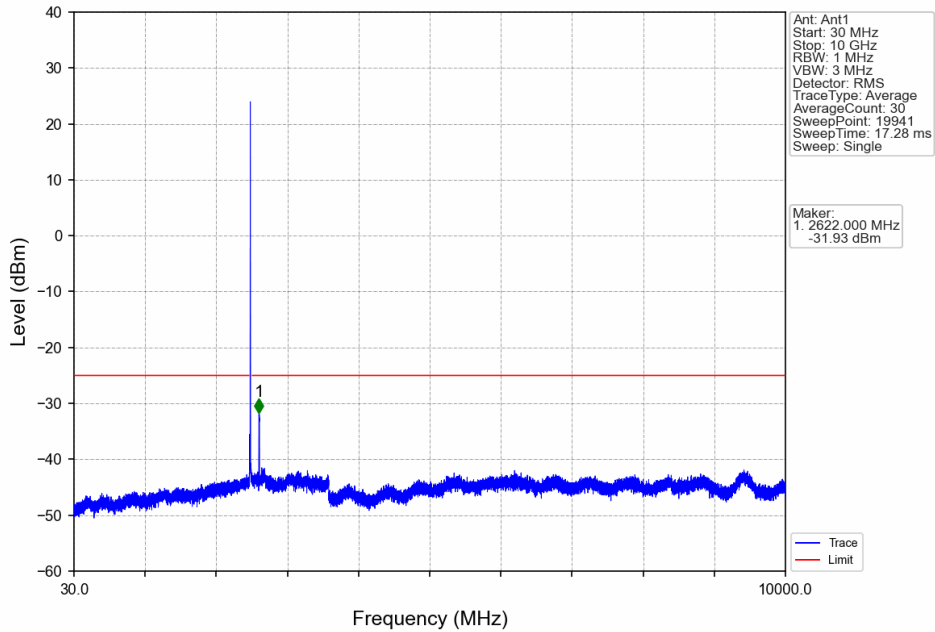


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Band7_10MHz_64QAM_LCH_2505MHz_RB_1_0_NTNV



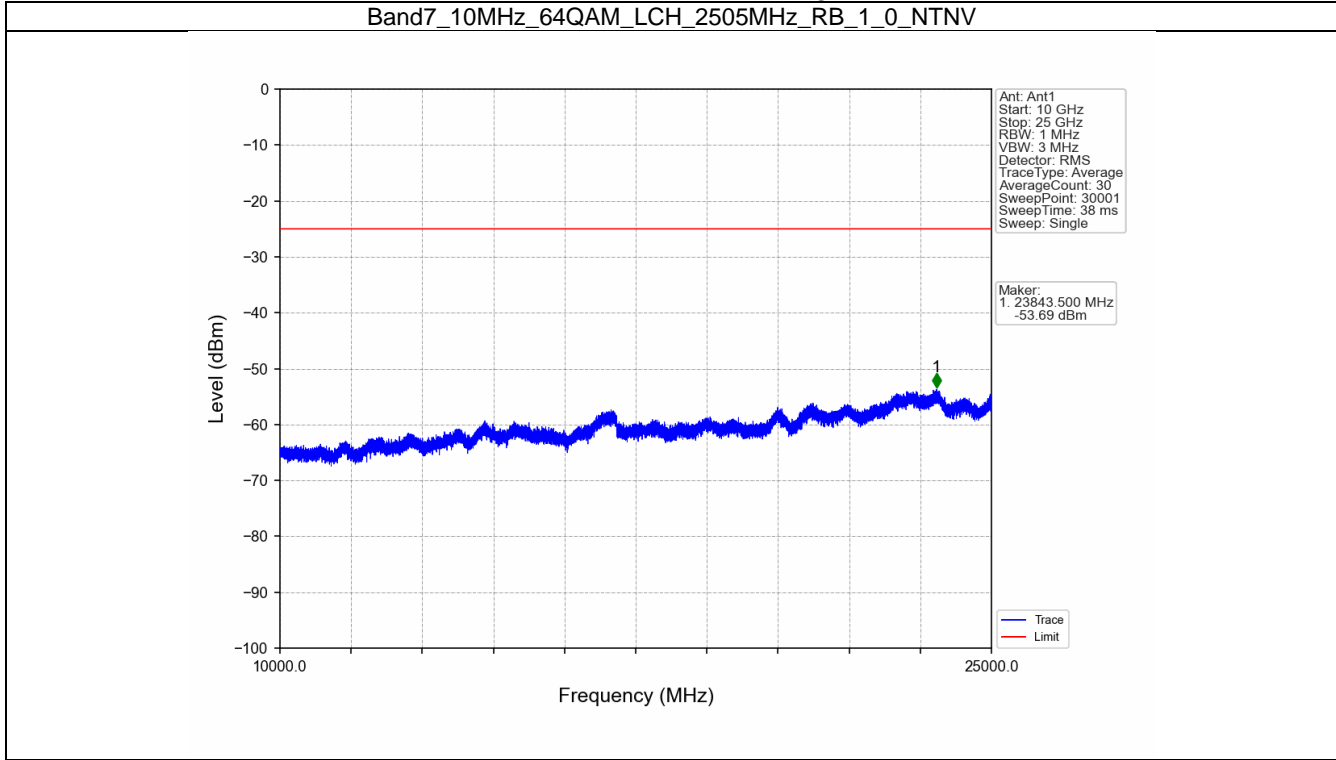
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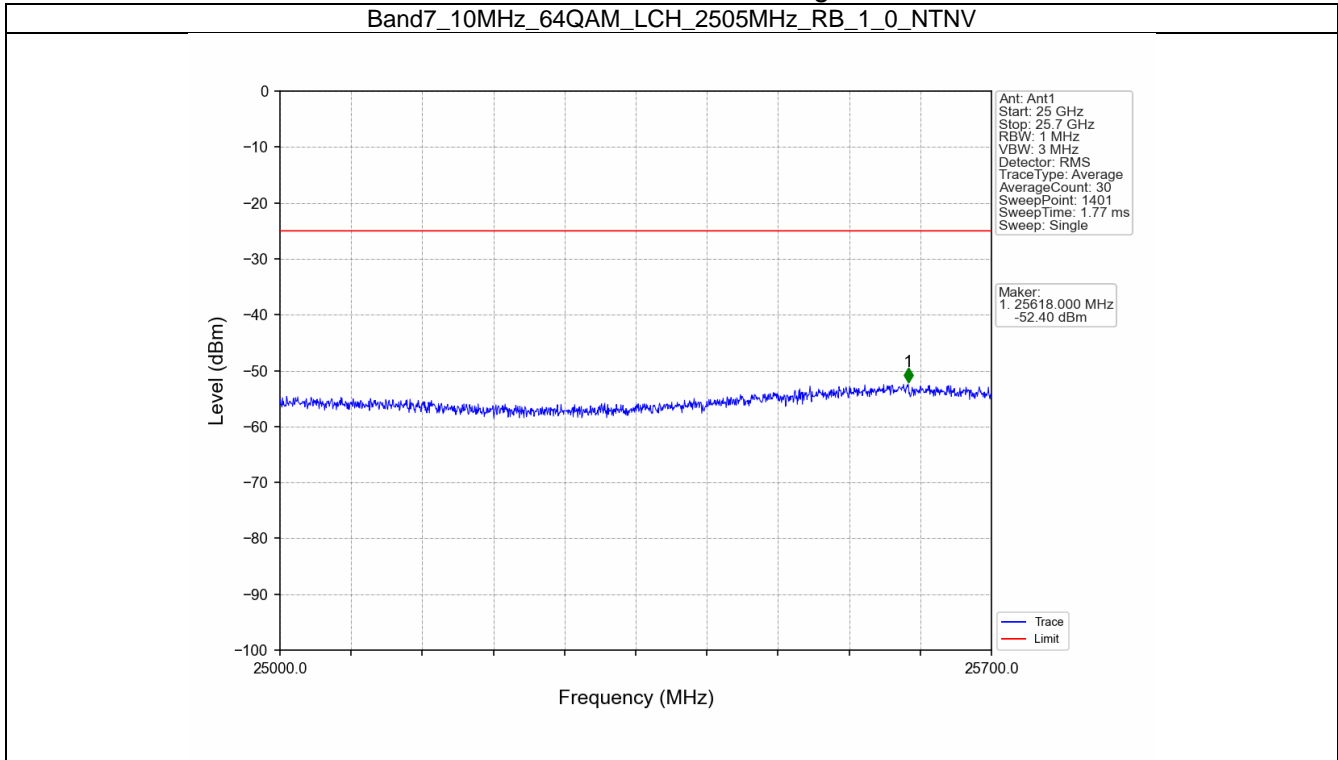
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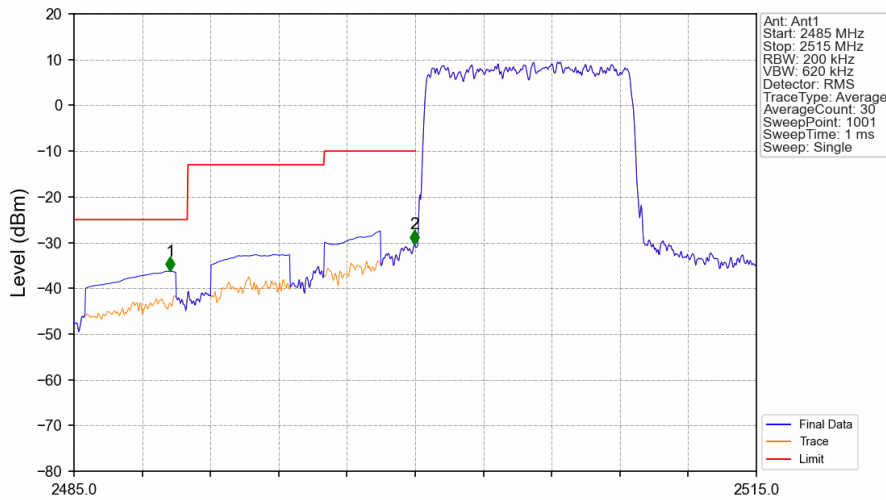


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Band7_10MHz_64QAM_LCH_2505MHz_RB_50_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2485	2499	1	CHP	1	2489.230	-36.28	-25	Pass
2499	2500	0.2	/	2	2499.970	-30.35	-10	Pass
2500	2515	0.2	/	/	/	/	/	/



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